आधारभूत तह परीक्षा २०८१

Basic Level Education 2025

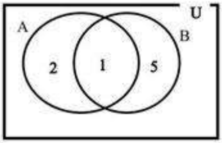
अनिवार्य गणित Compulsory Mathematics

कक्षा (Class): 8 पूर्णाङ्क (Full Marks): 50

समय (Time): 2 hours

सबै प्रश्न अनिवार्य छन् । Attempt all questions.

1) दुईओटा समूहहरू A र B लाई भेनचित्रमा प्रस्तुत गरिएको छ । Two sets A and B are presented in the Venn diagram.



A) समूह A र समूह B अलग्गिएका वा खप्टिएका कस्ता समूह हुन् पहिचान गरी लेख्नुहोस् । Identify and write whether the sets A and B are overlapping or disjoint? 1 mark

B) समूह B बाट बन्ने अनुपयुक्त उपसमूह उल्लेख गर्नुहोस् । Illustrate improper subset can be made from set B. 1 mark

C) समूह A र समूह B बाट बढीमा कतिवटा साझा उपयुक्त उपसमूहहरू बनाउन सकिएला ? How many maximum common proper subsets can be made from set A and set B? 1 mark

2) एकजना अधिकृतको मासिक तलब रू. 43,689 छ । उनको मासिक बचत रकम भन्दा खर्च रकम दोब्बर छ । The monthly salary of an officer is Rs. 43,689. The expenditure amount is double of the saving amount in the month.

A) उनले एक वर्षमा जम्मा तलब कति पाउँछन् ? How much salary does he/she get in one year? 1 mark

B) उक्त मासिक तलबमानलाई पञ्चआधार सङ्ख्या पद्धतिमा रूपान्तरण गर्नुहोस् । Convert the amount of monthly salary in the quinary number system. 2 marks

C) उनले एक महिनामा कति रकम बचत गर्छन् ? How much amount did he/she save in a month? 2 marks

3) एउटा कम्प्युटरको अङ्कित मूल्य रु. 50000 छ । रामले उक्त कम्प्युटर छुटसहित रू. 42500 मा किन्यो र 10% नाफा राखी बेचेछ । The mark price of a computer is Rs. 50000. Ram bought it in Rs. 42500 after allowing discount and sold it with 10% profit.

A) अङ्कित मूल्य (MP), छुट रकम (D) र बिक्रय मूल्य (SP) भए SP लाइ MP तथा D को रूपमा लेख्नुहोस् । If mark price (MP), discount amount (D) and selling price (SP) is given, write to SP in terms of MP and D. 1 mark

B) रामले उक्त कम्प्युटरमा कति रकम छुट पाएछ ? पत्ता लगाउनुहोस् । How much amount did Ram get discount in a computer? Find it. 1 mark

C) रामले उक्त कम्प्युटर कतिमा बेच्यो ? पत्ता लगाउनुहोस् । How much did Ram sell the computer for? Find it. 1 mark

D) उक्त कम्प्युटरको छुट रकम र नाफा रकम तुलना गर्नुहोस् ।Compare the discount amount and profit amount of the computer. 1 mark

4) वि. सं. 2078 सालको जनगणनाअनुसार नेपालको जनसङ्ख्या वृद्धिदर 0.93% छ । According to the census of 2078 BS, the population growth rate of Nepal is 0.93%

A) 0.93 आनुपातिक वा अनानुपातिक कस्तो सङ्ख्या हो लेख्नुहोस् । Write 0.93 is either rational or irrational number. 1 mark

B) 0.93 लाई बैज्ञानिक सङ्केतमा रूपान्तरण गर्नुहोस् । Convert 0.93 into scientific notation. 2 marks

C) $0.\overline{93}$ लाई भिन्नमा रूपान्तरण गर्नुहोस् । Convert $0.\overline{93}$ into fraction. 2 marks

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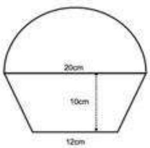
5) दिइएको चित्रमा समलम्ब चतुर्भुजमाथि अर्धवृत्ताकार आकृति देखाइएको छ । समलम्ब चतुर्भुजका दुई समानान्तर भुजाहरू नाप 12 से.मी. र 20 से.मी. छ भने त्यसको उचाइ 10 से.मी. छ । In the figure, a shape of semicircle is shown above the trapezium. The lengths of two parallel sides of trapezium are 12 cm and 20 cm respectively with height of 10 cm.



A) समलम्ब चतुर्भुजको क्षेत्रफल पत्ता लगाउने सूत्र लेख्नुहोस् । Write the formula for finding area of trapezium. 1 mark

B) समलम्ब चतुर्भुजको क्षेत्रफल पत्ता लगाउनुहोस् । Find the area of trapezium. 1 mark

C) अर्धवृत्तको क्षेत्रफल भन्दा समलम्ब चतुर्भुजको क्षेत्रफल कतिले कम वा बढी छ ? गणना गर्नुहोस् । How many more or less than the area of the trapezium than the area of semicircle? Calculate it. 2 marks

D) के समलम्ब चतुर्भुजमा एउटा विकर्ण खिच्दा बन्ने दुई त्रिभुजहरूको क्षेत्रफल बराबर हुन्छ त ? तर्कपूर्ण जवाफ दिनुहोस् । Are the areas of two triangles formed by drawing a diagonal in a trapezium equal? Give a logical answer. 1 mark

6) A) दुईवटा अभिव्यञ्जकहरूको ल.स. $4a^3 - 9ab^2$ र म.स. $(2a - 3b)$ छ । पहिलो अभिव्यञ्जक $(2a - 3b)$ भए दोस्रो अभिव्यञ्जक कति हुन्छ? The LCM and HCF of two expressions are $4a^3 - 9ab^2$ and $(2a - 3b)$. If the first expression is $(2a - 3b)$, what is the second expression? 2 marks

B) सरल गर्नुहोस्: Simplify: $\frac{x^2-7x+12}{x-3} \div \frac{x-4}{2}$ 2 marks

7) A) वर्ग समिकरणको एउटा उदाहरण लेख्नुहोस् । Write an example of the quadratic equation. 1 mark

B) यदि m = 2, n = 3, p = 1 र q = - 2 भए तलको अभिव्यञ्जकको मान पत्ता लगाउनुहोस् । If m = 2, n = 3, p = 1 and q = - 2, find the value of the following expressions.

$\frac{m^p \times n^q}{p^m \times q^n}$ 2 marks

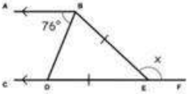
8) तल दुईओटा समिकरण दिइएको छ । Two equations are given below.

$x + y = 5$ and $x - y = 3$

A) ग्राफविधि प्रयोग गरी x र y को मान पत्ता लगाउनुहोस् । Find the value of x and y by using graphical method. 2 marks

B) माथिका समिकरणलाई कस्ता समिकरण भनिन्छ ? What equations are the above equations called? 1 mark

9) दिइएको चित्रमा ΔBDE समद्विबाहु त्रिभुज हो । जहाँ AB//CD तथा ∠ABD = 76° र ∠ BEF = x छ ।



In the adjoining figure, ΔBDE is an isosceles triangle. Where, AB//CD,

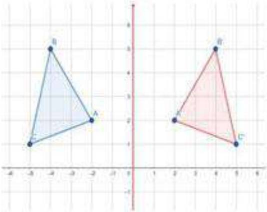
∠ABD = 76° and ∠BEF = x.

A) कोण ∠ABD सँग बराबर हुने एकान्तर कोणको नाम लेख्नुहोस् । Write the name of alternate angle equal with ∠ABD. 1 mark

B) x को मान कति हुन्छ ? पत्ता लगाउनुहोस् । What is the value of x ? Find it. 2 marks

C) फरक फरक नापका दुईओटा समद्विबाहु त्रिभुजहरु बनाई समद्विबाहु त्रिभुजका आधार कोणहरु बराबर हुन्छन् भनी प्रयोगबाट परीक्षण गर्नुहोस् । Experimentally verify that the base angles of an isosceles triangle are equal by making two different size of isosceles triangle. 3 marks

10) चित्रमा ΔABC र $\Delta A'B'C'$ लाई निर्देशाङ्क सतहमा देखाइएको छ । In the figure, ΔABC and $\Delta A'B'C'$ are shown in the coordinate plane.



A) ΔABC लाई कुन अक्षमा परावर्तन गरी $\Delta A'B'C'$ बनाइएको छ ? । In which axis is ΔABC reflected to form $\Delta A'B'C'$? 1 mark

B) रेखा AB को लम्बाइ गणना गर्नुहोस् । Calculate the length of line AB. 2 marks

C) के समद्विबाहु त्रिभुजबाट टेट्राहेड्रन बनाउन सकिन्छ ? कारण दिनुहोस् । Can a tetrahedron be made from an isosceles triangle? Give reason. 1 mark

11) चित्रमा समानान्तर चतुर्भुज ABCD का विकर्णहरू AC र BD बिन्दु E मा काटिएका छन् । In the figure, diagonals AC and BD are intersected at E on the parallelogram ABCD.

A) कम्पासको प्रयोग गरी समानान्तर चतुर्भुज ABCD को रचना गर्नुहोस् । जहाँ, DC = 5 cm र BC = 4 cm तथा $\angle ADC = 120^{\circ}$ छ । Construct a parallelogram ABCD by using compass, where DC = 5 cm, BC = 4 cm and $\angle ADC = 120^{\circ}$. 3 marks

B) प्रमाणित गर्नुहोस् । Prove that : $\Delta ABC \cong \Delta ADC$ 2 marks

12) तल दिइएको तालिकामा एउटा परिवारको तीन महिनाको मासिक खर्चको विवरण दिइएको छ । In the table given below, the monthly expenditure of a family of three months is given.

महिना (Month)	खर्च रकम रु. मा (Amount of Expenditure in Rs.)
वैशाख (Baisakh)	24000
जेठ (Jetha)	28000
असार (Asar)	20000

A) माथिको तथ्याङ्कलाई वृत्त चित्रमा प्रस्तुत गर्नुहोस् । Represent the above information in the pie-chart. 2 marks

B) माथि दिएको तथ्याङ्कबाट तीन महिनाको औसत खर्च गणना गर्नुहोस् । Calculate the average expenditure of three months of the above data. 1 mark

-The End-

Marking Scheme of the model set-1

1) A)	Sets A and B are overlapping sets	1 mark
B)	{1, 5}	1 mark
C)	2 common proper subsets made from set A and B. i.e. ϕ, {1}	1 mark
2) A)	Yearly Salary = Rs. 524268	
	OR, Yearly Salary = 12 × 43689 = Rs. 524268	1 mark
B)	Dividing by 5 as follows:	1 mark
	43689 / 5 = 8737 with remainder 4 8737 / 5 = 1747 with remainder 2 1747 / 5 = 349 with remainder 2 349 / 5 = 69 with remainder 4 69 / 5 = 13 with remainder 4 13 / 5 = 2 with remainder 3 2 / 5 = 0 with remainder 2	
	Thus, 436895 = 2344224_5	1 mark
C)	x + 2x = 43689	1 mark
	Saving amount in a month = Rs. 14563	1 mark
3) A)	SP = MP – D	1 mark
B)	Discount amount = Rs. 7500	
	OR, Discount amount = MP – CP = 50000 – 42500 = Rs. 7500	
	OR, Discount amount = 50000 – 42500 = Rs. 7500	1 mark
C)	SP = Rs. 46750	
	OR, SP = CP + 10% of CP = 42500 + 4250 = Rs. 46750	
	OR, SP = 42500 × 1.1 = Rs. 46750	1 mark

D) Required Ratio = 30:17 or 17:30

OR, Discount amount is Rs. 3250 more than profit amount

OR, Profit amount is Rs. 3250 less than discount amount — 1 mark

4) A) 0.93 is a rational number — 1 mark

B) $0.93 = \frac{93}{100}$ — 1 mark

$0.93 = 9.3 \times 10^{-1}$ — 1 mark

C) Let x = 0.9393 and 100x = 93.9393 — 1 mark

$0.\overline{93} = \frac{31}{33}$ — 1 mark

5) A) Area of trapezium $= \frac{1}{2}(a + b) \times h$ sq. unit — 1 mark

B) $A = \frac{1}{2}(12 + 20) \times 10 = 160\ cm^2$

OR, $A = 160\ cm^2$ — 1 mark

C) Area of semicircle = $157.14\ cm^2$

OR, Area of semicircle $= \frac{\pi r^2}{2} = \frac{22\times10\times10}{7\times2} = = 157.14\ cm^2$ — 1 mark

Area of trapezium is $2.86\ cm^2$ more than area of semicircle — 1 mark

D) Yes, both have equal areas. — 1 mark

6) A) $(4a^3 - 9ab^2)(2a - 3b) = (2a - 3b) \times 2^{nd}$ exp — 1 mark

2nd exp $= (4a^3 - 9ab^2)$ — 1 mark

B) $\frac{x^2-7x+12}{x-3} \div \frac{x-4}{2} = \frac{(x-3)(x-4)}{x-3} \times \frac{2}{x-4}$ — 1 mark

$= 2$ — 1 mark

7) A) Any one example (eg. $x^2 + 5x + 6 = 0, x \neq 0$) — 1 mark

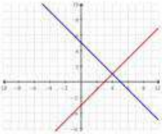
B) $\frac{m^p \times n^q}{p^m \times q^n} = \frac{2^1 \times 3^{-2}}{1^2 \times (-2)^3}$ 1 mark

$= \frac{1}{36}$ 1 mark

8) A) for correct graphical representation 1 mark

x = 4 and y = 1 1 mark

B) Simulteneous equations 1 mark



9) A) ∠ABD = ∠BDE 1 mark

B) ∠BED = 28° 1 mark

x = 152° 1 mark

C) Two different shaped figures with naming 1 mark

Correct tabulation 1 mark

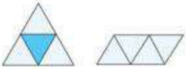
Obtained data by used protractor. 1 mark

10) A) Reflection on y – axis 1 mark

B) A = (-2,2), B = (-4,5) 1 mark

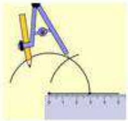
AB = $\sqrt{13}\ unit$ 1 mark

C) Nets of tetrahedron (anyone) 1 mark

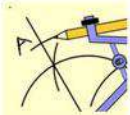


Net 1 Net 2

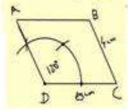
11) A) Draw line DC = 5 cm and ∠ADC = 120° 1 mark



DA = BC = 4 cm 1 mark



ABCD is a parallelogram 1 mark

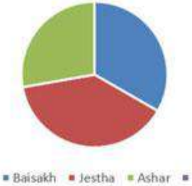


B) AB = DC (S), $\angle B = \angle D$ (A), AC = AC(S)
1 mark

$\Delta ABC \cong \Delta ADC$ by SAS 1 mark

12) A) Central Angles 120°, 140°, 100° 1 mark

B) Correct pie chart (Expenditure in three months) 1 mark



C) Average expenditure = Rs. 24000

OR, $\frac{24000+28000+20000}{3} = Rs. 24000$

1 mark

Test matrix of the model set

S N	Areas	Question no.	Cognitive Level				In the set		Required	
			K (16%)	U (24%)	A (40%)	HA (20%)	Total Marks	No. of Items	Total Marks	No. of Question (Items)
1	**Set**	1	1		1	1	3	3	**3**	**2(5)**
2	**Statistics**	12		1	2		3	2	**3**	
3	**Arithmetic**	2		1	2 + 2		5	3	**14**	**3(10)**
		3	1	1	1	1	4	4		
		4	1	2		2	5	3		
4	**Mensuration**	5	1	1	2	1	5	4	**5**	**1(4)**
5	**Algebra**	6			2	2	4	2	**10**	**3(6)**
		7	1	2			3	2		
		8	1		2		3	2		
6	**Geometry**	9	1	2	3		6	3	**15**	**3(8)**
		10	1	2		1	4	3		
		11			3	2	5	2		
		Total	**8**	**12**	**20**	**10**	**50**	**33**	**50**	**12(33)**

***Contributors*: NEB Item Development Training Participants, Dang 2081, Mansir**

आधारभूत तह परीक्षा २०८१
Basic Level Examination 2024
विज्ञान तथा प्रविधि Science and Technology

समय:- २ घण्टा (Time: 2 hours) **पूर्णाङ्क: -५० Full mark -50**

सबै प्रश्नहरू अनिवार्य छन् । All questions are compulsory.

तलका बहुवैकल्पिक प्रश्नहरूको A B C र D मध्ये सही उत्तर छान्नुहोस् १०×१ अङ्क = १० अङ्क
Select the correct answer from A B C and D for the multiple choice questions below. 10×1mark = 10 marks

1) सामान्यत: अनुसन्धान कार्यको अन्तिम चरण कुन हो ? Which is the last step of research work?
   A) निष्कर्ष Conclusion
   B) तथ्याङ्क सङ्कलन Data collection
   C) परिकल्पना निर्माण Setting hypothesis
   D) उद्देश्य निर्माण Formulation of objective

2) वनस्पति कोषमा पाइने तर जनावर कोषमा नपाइने अवयव कुन हो ? Which component is found in plant cell but not in animal cell?

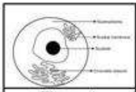
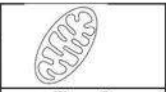
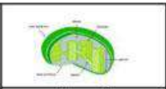
		

Figure A	Figure B	Figure C	Figure D

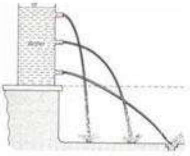
   A) चित्र A Figure A
   B) चित्र B Figure B
   C) चित्र C Figure C
   D) चित्र D Figure D

3) कुनै विद्यार्थीले दाउरा जम्मा गर्न जङ्गलमा जाँदा एउटा सङ्कटापन्न जनावर भेटाए । त्यसलाई परस्थानीय संरक्षण गर्नका लागि कुन ठाउँमा पठाउनु उपयुक्त हुन्छ ? One student found an endangered animal while collecting firewood from a jungle. Which ex-situ method is appropriate to conserve that animal?
   A) राष्ट्रिय निकुञ्ज National Park
   B) वन्यजन्तु आरक्षण क्षेत्र Wild life conservation area
   C) चिडियाखाना Zoo
   D) शिकार क्षेत्र Hunting Area

4) कपासको बिउ कुन प्रक्रियाद्वारा प्रसारण हुन्छ ? By which method is the cotton seed dispersed?
   A) हावाद्वारा By air
   B) चराद्वारा By birds
   C) किराद्वारा By insects
   D) पानीद्वारा By water

BLE Class 8 Science and Technology Model Exam Question 2081 2024 by NEB

5) सँगैको चित्रमा दिइएको प्रयोगको निष्कर्ष तलका मध्ये कुन हो ?What is the main conclusion of the experiment in the given figure?



A) तरल पदार्थको चाप त्यसको घनत्वमा भर पर्दछ । The liquid pressure depends on its density.
B) तरल पदार्थको चाप गुरुत्वप्रवेगमा भर पर्दछ । The liquid pressure depends on acceleration due to gravity.
C) तरल पदार्थको चाप त्यसको गहिराइमा भर पर्दछ । The liquid pressure depends on its depth
D) तरल पदार्थको चाप भाँडोको आकारमा भर पर्दछ । The liquid pressure depends on the shape of the vessel.

6) धेरै चिसो वातावरणमा बिरुवाका बेर्नाहरू उमार्न कस्तो उपाय अपनाउन सकिन्छ ?Which method should be applied to grow saplings of plant in a very cold environment?
A) काठले बनेको घरको प्रयोग । Using house made of wood.
B) प्लास्टिकले बनेको घरको प्रयोग । Using house made of plastic.
C) परालले बनेको घरको प्रयोग । Using house made of straw.
D) माटोले बनेको घरको प्रयोग । Using house made of mud.

7) गार्हस्थ विद्युत परिपथमा आवश्यकता भन्दा बढी विद्युत प्रवाह हुँदा आफै बन्द भई दुर्घटनाबाट बचाउने उपकरण कुन हो ? Which device is used to prevent the accident by cutting off the supply of electricity itself when high current flows through it?
A) वितरण बोर्ड Distribution board
B) एम सी बी MCB
C) प्लग Plug
D) स्वीच Switch

8) तारापुञ्जको विशेषता कुन हो ?Which is the feature of Galaxy ?
A) दीर्घ वृत्ताकार, कमानी आकार, अनियमित Elliptical, spring shape, irregular shape
B) विभिन्न जनावर, वस्तु, उपकरणको आकार Shape of various animal, object, instrument.
C) आफ्नो प्रकाश नहुने, सङ्ख्यामा ८ वटा Does not have its own light, 8 in number.
D) सूर्यको नजिक आउँदा बरफ पग्लिएर लामो कुचो जस्तो आकार बन्ने Becomes like broom while reaching near to the Sun by melting of ice.

9) म्याग्नेसियम क्लोराइडको अणुसूत्र कुन हो ? Which is the molecular formula of Magnesium Chloride?
A) $MgCl$
B) Mg_2Cl_3
C) $MgCl_2$
D) Mg_2Cl

10) दिइएका तत्त्वहरूको पारमाणविक साइजको बढ्दो क्रममा सही क्रम कुन हो ? Which is the correct order of elements based on increasing order of their atomic size?

A) O, F, N
B) F, O, N
C) O, N, F
D) N, O, F

समूह ख Group B
अति सङ्क्षिप्त उत्तर आउने प्रश्नहरू Very short answer questions

तलका प्रश्नको उत्तर लेख्नुहोस् । ८ × १ अङ्क = ८ अङ्क
Write answer to the questions below. 8 × 1 mark = 8 marks

11) सामाजिक सञ्जालको प्रयोग गर्दा तपाईं यसको सुरक्षित प्रयोगका लागि कुन पक्षमा जोड दिनुहुन्छ ? एउटा उपयुक्त उपाय लेख्नुहोस् । While using social network, which aspect do you focus on its safe use? Write one appropriate measure.

12) तपाईंले आफ्नो अध्ययनलाई सहज बनाउन आर्टिफिसियल इन्टेलिजेन्सको प्रयोग कसरी गर्न सक्नुहुन्छ ? How can you use artificial intelligence to make your study easier?

13) ब्याक्टेरियालाई मात्रै असर गर्ने भाइरसलाई के भनिन्छ ? What is the virus called that affects bacteria only?

14) चित्रमा इँटाहरूबाट पर्खालको निर्माण भएको देखाइएको छ । यसका आधारमा मानव कोषलाई शरीरसँग तुलना गरी एक वाक्यमा निष्कर्ष लेख्नुहोस् । A wall constructed from bricks is shown in the figure. On the basis of this, compare human cell with human body and write the conclusion in one sentence.

15) बजारबाट किनेर ल्याएको बट्टाको अचार लामो समयसम्म टिक्छ तर घरमा बनाएको अचार छिटै बिग्रन्छ । यस्तो हुनाको मुख्य कारण लेख्नुहोस् । The canned pickle purchased from the market can last for a long time but the pickle made at home is spoiled soon. Write the main reason of it.

16) गोलाकार ऐनामा केन्द्रीकरण विन्दु भनेको के हो ?What is principle focus in a spherical mirror?

17) तामा र टिनको मिश्रणबाट बन्ने मिश्रित धातु कुन हो ? Which alloy is made of copper and tin?

18) तालिकामा दुईवटा भाँडामा राखिएको पानीको तापक्रम फरक फरक समयमा कति छ भनी देखाइएको छ । The temperature of water in two containers at different time is shown in the table.

भाँडो (Container)	तापक्रम (Temperature)			
	11:00 am	1:00 pm	03:00 pm	05:00 pm
A. तामाको भाँडो Copper container	30^0C	26^0C	19^0C	16^0C
B. माटाको भाँडो Earthen container	26^0C	25.5^0C	25^0C	24^0C

तालिकामा भाँडो B मा राखिएको पानीको तापक्रम भाँडो A को तुलनामा कम परिवर्तन हुनुको कारण के हो ? What is the reason that the temperature in the water of container B changes very low in comparison to container A?

समूह ग Group C
सङ्क्षिप्त उत्तर आउने प्रश्नहरू Short answer questions

तलका प्रश्नको उत्तर लेख्नुहोस् । — ८ × २ अङ्क = १६ अङ्क
Write answer to the questions below. — 8 × 2 mark = 16 marks

19) प्रयोगशालामा प्रयोगात्मक कार्य गर्दा हाइड्रोक्लोरिक अम्ल एकजना विद्यार्थीको हातमा परेर जल्यो । यस्तो दुर्घटना हुन नदिनका लागि अपनाउनु पर्ने कुनै दुई सावधानीहरू लेख्नुहोस् । A student hand was burn with hydrochloric acid while doing practical work in laboratory. Mention any two safety measures to avoid such accident.

20) तपाईंको समुदायमा सडक निर्माण हुँदैछ भने दिगो विकासका दृष्टिले सडक निर्माणकर्तालाई तपाईंले दिने दुई सुझाव दिनुहोस् । If a road is being constructed in your community, Give two suggestion do you give to the constructor regarding sustainable development?

21) आवृत्ति 15 हर्ज भएको ध्वनिको तरङ्ग लम्बाइ 22 मिटर छ भने उक्त ध्वनि तरङ्गको वेग कति हुन्छ ? What is the speed of sound having frequency 15 hertz and a wavelength 22 meter?

22) कन्केभ ऐना र कन्भेक्स ऐनाबिच यिनीहरूले बनाउने आकृतिका विशेषताका आधारमा कुनै दुई फरक लेख्नुहोस् । Write any two differences between concave mirror and convex mirror based on the features of the image formed by them.

23) चुम्बकीय शक्ति ह्रास हुँदा चुम्बकमा रहेका अणु चुम्बकको अवस्थामा हुने परिवर्तनलाई चित्रबाट देखाउनुहोस् । Draw a figure to Show the condition of molecular magnet in a magnet during demagnetization.

24) कुन इरालाई जीव उत्पत्तिको प्रतिकूल इरा भनिन्छ र किन ? Which era was inappropriate for the evolution of life and why?

25) संयुज्यता सेल भनेको के हो ? यसमा भएको इलेक्ट्रोनलाई के भनिन्छ ? What is valance shell? What is the electron that lies in it called?

26) प्रोटोनको संख्या 13 र न्युट्रोनको सङ्ख्या 14 भएको तत्त्वहरूको परमाणुको संरचना बनाई आधुनिक पेरियोडिक तालिकामा यसको समूह पनि लेख्नुहोस् । Draw the atomic structure of the element having 13 protons and 14 neutrons and mention its group in modern periodic table.

समूह घ Group D

लामो उत्तर आउने प्रश्नहरू Long answer questions

तलका प्रश्नको उत्तर लेख्नुहोस् । ८ × २ अङ्क = १६ अङ्क

Write answer to the questions below. 8 × 2 mark = 16 marks

27) तपाईंले आफ्नो विज्ञान तथा प्रविधि विषयको पाठ्यपुस्तकको सफ्ट कपी प्राप्त गर्नका लागि तल दिइएका मध्ये कुन स्रोतलाई उपयोग गर्न सक्नुहुन्छ ? यहाँ दिइएका स्रोतहरूलाई एउटै नामबाट सम्बोधन गर्न कुन शब्दावली प्रयोग हुन्छ ? यी स्रोतहरुको प्रयोग गर्दा अपनाउनुपर्ने कुनै दुईओटा सुरक्षाको उपायहरू लेख्नुहोस् । Which of the following source do you use to get soft copy of your science and Technology textbook? Which single word can be used to represent the given sources? Write any two safety measures while using these sources.

https://www.neb.gov.np
http://www.learning.cehrd.edu.np
https://www.moecdc.gov.np
https://mofa.gov.np

28) स-साना गुलिया सुन्तला फल्ने एउटा एक वर्ष पुरानो बिरुवा छ । एउटा सुन्तलाको बोटमा ठूला गुलिया सुन्तला फल्छन् । ती दुई बोटहरु प्रयोग गरी ठुला र गुलिया सुन्तला फलाउनका लागि कुन प्रजनन् विधि उपयुक्त हुन्छ ? उक्त विधिको तीन चरण वर्णन गर्नुहोस् । An one year old orange plant bearing small-sweet oranges is there. There is another tree bearing large sweet oranges. Which reproduction method is suitable for producing large and sweet oranges using these plants? Describe three steps of this method.

29) दिइएको चित्र हेरी सोधिएका प्रश्नहरूको उत्तर दिनुहोस् । Observe the figure and answer the questions that follows:

A) यो कुन दर्जाको उत्तोलक हो ? Which class lever is this?

B) यसको एउटा वास्तविक उदाहरण दिनुहोस् । Write one real example of this.

C) इफोर्ट र लोडको स्थान आपसमा परिवर्तन गर्दा यो कुन दर्जाको उत्तोलक हुन्छ ? यसरी बन्ने उत्तोलकको एउटा वास्तविक उदाहरण दिनुहोस् । Which class lever will be formed on interchanging the position of effort and load in the given lever? Give one real example of thus formed lever.

30) दुईओटा नमुनाको विभिन्न सूचक पदार्थसँग प्रतिक्रिया गरी प्राप्त नतिजालाई तलको तालिकामा देखाइएको छ : Result obtained by reacting two samples with a different indicators are shown in the table below:

परीक्षण नमुना Sample	मिथाइल अरेन्ज Methyl Orange	लिटमस पेपर Litmus Paper	फेनोल्फ्थालिन Phenolphthalein
नमुना A (Sample A)	X	रातो (Red)	रङहीन (Colourless)
नमुना B (Sample B)	पहेलो Yellow	Y	गुलाफी (Pink)

A) X र Y ले कुन कुन रङको सङ्केत गर्छन् । Which colour do X and Y represent?

B) नमुना A र B मध्ये कुनले अम्लीय पदार्थ जनाउँछ ? Which sample represents acidic substance between A and B?

C) नमुना A र B मध्ये कुनले क्याल्सियम कार्बोनेटसँग प्रतिक्रिया गर्दा कार्बनडाइअक्साइड ग्याँस दिन्छ ? Between A and B, which will produce carbon dioxide gas when reacts with calcium carbonate?

-The end-

Marking Scheme

Group A

Question from 1 to 10 carries 1 mark for each

1) A) निष्कर्ष Conclusion
2) C) चित्र C Figure C
3) C) चिडियाखाना Zoo
4) A) हावाद्वारा By air
5) C) तरल पदार्थको चाप त्यसको गहिराइमा भर पर्दछ । The liquid pressure depends on its depth
6) B) प्लास्टिकले बनेको घरको प्रयोग । House made of plastic.
7) B) एम सी बी MCB
8) A) दीर्घ वृत्ताकार, कमानी आकार, अनियमित Elliptical, spring shape, irregular shape
9) C) $MgCl_2$
10) B) F, O, N

Group B

11) साइबर नैतिकता अपनाई साइबर कानुनको पालना गर्ने Follow cyber ethics and cyber law

Or

अपरिचित व्यक्तिलाई साथी नबनाउने Stranger should not be made friend

Or

थाहा नभएको लिङ्कमा क्लिक नगर्ने Should not click on unknown link

Or

सामाजिक सञ्जाल प्रयोग गर्दा बलियो पासवर्ड प्रयोग गर्ने Using strong password while using social network

Or any other such correct response 1 mark

12) अन्तरिक्ष अध्ययनमा AI प्रयोग गरेर Using Al in Astronomy study

Or

स्वास्थ्य सेवामा AI प्रयोग गरेर Using AI in Healthcare

Or

Gaming मा AI प्रयोग गरेर Using AI in Gaming

Or any such other correct application 1 mark

13) ब्याक्टेरियोफेज भाइरस Bacteriophage Virus 1 mark

14) मानव शरीर सुक्ष्म एकाइ कोषहरू मिलेर बनेको हुन्छ, जसरी इँटाहरू मिलेर पर्खाल बनेको हुन्छ । Human body is made up of smallest units called cells like the bricks in the wall. 1 mark

15) बजारबाट ल्याएको अचारमा फुड प्रिजर्भेटिभ (एसिटिक एसिड) मिसाइन्छ जसले अचारलाई बिग्रन दिँदैन । Use of food preservative (acetic acid) as a preservative does not allow pickle to spoiled. 1 mark

16) प्रमुख अक्षसँग समानान्तर प्रकाशका किरणहरु गोलाकार ऐनाबाट परावर्तन भई प्रमुख अक्षमा भेट हुने विन्दुलाई केन्द्रीकरण विन्दु भनिन्छ । The point in principal axis where the rays of light parallel to principal axis meet after reflection through the spherical mirror is call focal point. 1 mark

17) काँस Bronze 1 mark

18) माटोको भाँडो तापको कुचालक भएकाले ताप प्रसारण कम हुन्छ । Earthen pot is bad conductor of heat so there is less transfer of heat 1 mark

Group C

19) 1 mark for 1 correct precaution, maximum 2 marks.

- पञ्जा अनिवार्य रूपमा प्रयोग गर्ने । Use of gloves compulsorily.
- अम्ल प्रयोग गर्दा पिपेट वा लामो साइजको फिलर प्रयोग गर्ने । Acid should be used with the help of pippet or long filler
- एप्रोन वा ल्याब कोट प्रयोग गर्ने ।Use of apron and lab coat.
- or, अन्य कुनै उपयुक्त दुई बुँदा any other two suitable answers

20) 1 mark for 1 correct response, maximum 2 marks.

- पारिस्थितिक पद्धति तथा जैविक विविधता संरक्षण गरी निर्माण कार्य गर्नुपर्छ । Construction is to be carried by conserving ecosystem or biodiversity.
- दिगो विकासका सिद्धान्तहरु अपनाउनु पर्छ ।Follow the principles of sustainable development
- अन्य कुनै उपयुक्त दुई बुँदा any other two suitable answers

21) Solution

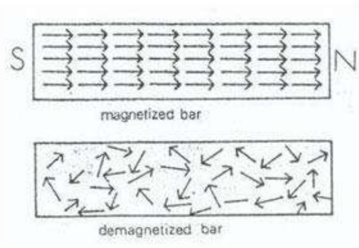
Given :
Frequency = 15Hz
Wavelength= 22m
ध्वनिको वेग = आवृत्ति × तरङ्ग लम्बाई
Speed = Frequency × wave length 1 mark

Speed= 15 × 22= 330 m/s 1 mark

22) Each correct difference carries 1 mark, maximum 2 marks

कन्केभ ऐना Concave Mirror	कन्भेक्स ऐना Convex Mirror
वास्तविक Real	अवास्तविक Virtual
उल्टो Inverted	सुल्टो Erect
वस्तुको स्थान अनुसार सानो वा ठुलो Samll or large as per position of object	सानो Small

23) चुम्बकमा रहेका अणु चुम्बकको अवस्था देखिने चित्र बनाएमा for drawing correct picture 1 mark
चुम्बकीय शक्ति ह्रास हुँदा चुम्बकमा रहेका अणु चुम्बकको अवस्था देखिने चित्र बनाएमा for drawing correct picture 1 mark



24) आर्कियोज्वाइक इरालाई जीव उत्पत्तिको प्रतिकूल इरा भनिन्छ । Archeozoic era was inappropriate for the evolution. 1 mark

त्यतिबेला पृथ्वीमा उपयुक्त भौतिक वातावरण थिएन । (पृथ्वी निकै तातो थियो ।) The Earth had no suitable physical environment. (Earth was very hot) 1 mark

25) तत्वको परमाणुको सबैभन्दा बाहिरी सेल Outermost orbit of an atom. 1 mark

भ्यालेन्स इलेक्ट्रोन Valance electron 1 mark

26) एल्मुनियमको पारमाणविक संरचना बनाएमा Drawing Atomic structure of Aluminium 1 mark

समूह IIIA/13 Group IIIA/13 1 mark

Group D

27) https://www.moecdc.gov.np 1 mark

- वेबसाइट Website 1 mark
- for a correct safety measure 1 mark maximum 2 marks
- सुरक्षित वेबसाइटहरु मात्र प्रयोग गर्ने Using only safe websites
- एन्टिभाइरसको प्रयोग Using antivirus
- अन्य कुनै उपयुक्त उपाय any other suitable measure............

28) ग्राफ्टिङ Grafting 1 mark

ग्राफ्टिङका चरणहरू Steps of grafting

- एक वर्ष पुरानो सुन्तलाको बोटको माथिको भाग काटेर निकाली तलको भागलाई स्टकको रूपमा प्रयोग गर्ने Upper part of one year old orange plant should be thrown to make it stock 1 mark
- ठुला फल फल्ने सुन्तलाको बोटको हाँगालाई सायनको रूपमा प्रयोग गर्ने A healthy branch of orange bearing large oranges should be taken as scion. 1 mark
- स्टकमा सायनलाई राम्रोसँग जोडेर ग्राफ्टिङ टेपले हावा नछिर्ने गरी राम्रोसँग बाँध्ने । Stock and scion should be connected correctly and bind tightly with grafting tape without any air space. 1 mark

29) क. दोस्रो दर्जा Second Class 1 mark

ख. एकपाङ्ग्रे ठेलागाडा One wheel Barrow or any other example 1 mark

ग. तेस्रो दर्जा Third Class 1 mark

कुचो- Broom or any other correct example 1 mark

30) क. X रातो (Red) र Y निलो (Blue) 1+ 1 mark

ख. नमुना A (Sample A) 1 mark

ग. यो अम्ल भएकाले यसले क्याल्सियम कार्बोनेटसँग प्रतिक्रिया गर्दा धातुको लवण र कार्वनडाइअक्साइड ग्याँस दिन्छ। As it is acid it reacts with calcium carbonate to produce metallic salt and carbon dioxide gas.

1 mark

Sample of a test matrix Science and Technology

Content	Knowledge				Understanding				Application				Higher Ability				Group wise weightage	Total weightage	Group wise weightage (required)	Total weightage required)
	MCQ	VSAQ	SAQ	LAQ	MCQ	VSAQ	SAQ	LAQ	MCQ	VSAQ	SAQ	LAQ	MCQ	VSAQ	SAQ	LAQ				
1) Scientific Learning	1										2						9	3	9	3
2) ICT						1				1						4		6		6
3) Organism & their Structure		1			1					1				1				4		4
4) Bio-diversity & Environment							2		1								12	2	12	3
5) Life Process	1											4						6		5
6) Force and Motion								4					1					5		5
7) Energy in Daily Life		1					2		1		2			1				7		7
8) Electricity and Magnetism					1										2		18	3	18	3
9) Earth and Space							2		1									3		3
10) Matter			2		1						2		1					6		6
11) Materials used in daily life				4		1											11	5	11	5
Total	2	2	2	4	3	2	6	4	3	2	6	4	2	2	2	4	50	50	50	50

Item format requirement in the Science and Technology subject

Type of item	Weightage per item	No of items				Weightage				Total no. of questions	Total weightage
		K	U	A	HA	K	U	A	HA		
1) Multiple Choice Question	1	2	3	3	2	2	3	3	2	10	10
2) Very Short Answer Question	1	2	2	2	2	2	2	2	2	8	8
3) Short Answer Question	2	1	3	3	1	2	6	6	2	8	16
4) Long Answer Question	4	1	1	1	1	4	4	4	4	4	16
Total		6	9	9	6	10	15	15	10	30	50

***Contributors*: NEB Item Development Training Participants, Dang 2081, Mansir**

Basic Level Examination
Model Question
2081 (2024)

Class: VIII **F. M.: 50**

Time: 2 Hours

1) Read the following text and write 'TRUE' for the true and 'FALSE' for the false statements.
5 x 1 =5 marks

Isaac Newton was born in 1643 in Wools Thorpe, England. He was the son of a peasant who died three months before Isaac was born. Newton spent most of his early years with his maternal grandmother after his mother remarried. His education was interrupted by a failed attempt to turn him into a farmer. In the beginning, he seemed to be a dull boy. He had little interest in his studies. However, he liked to use his hands. He used to make little machines, such as windmills. He would catch mice and make them drive some of his little machines.

At the age of nineteen, Newton went to Cambridge University where he studied mathematics and science. He started to make discoveries in mathematics when he was a college student. He continued to do so after he had achieved his degree. He was appointed Professor of mathematics when he was only 26 years old.

Newton did not limit his studies to mathematics. He became very interested in the behavior of light. His interest in light led to the improvement of telescopes. The lenses used in telescopes in those days were not as good as modern-day lenses. Newton showed that curved mirrors could be used instead of lenses. These gave better results in some ways and such telescopes have been used ever since.

A) Isaac Newton's father died before he was born.

B) Newton got parental love in his childhood.

C) Newton's family supported him in his studies.

D) At Cambridge University, Newton started making discoveries in mathematics.

E) Newton's findings about curved mirrors improved telescopes.

2) Read the paragraphs below and put the sentences in the correct order as they appear in the text.
5 x 1 = 5 marks

I knew a little about Mustang, Nepal before I visited it in early 2020. I was curious to see a place untouched by tourists, away from the busy life of Hong Kong. Mustang has only been open to tourists since 1992 and non-Nepali tourists need a special travel permits to enter Upper Mustang.

On the first night, I stayed in Pokhara to meet up with my tour group. Pokhara is the starting point for many treks that can be taken in the Himalayas. The staff of the hotel provided me with cushions and blankets to ensure I would not get cold during the night.

The next day, my tour guide Reena, picked me up early and we jumped in a jeep to start the journey. January in Nepal is usually somewhere between 0^0 to -15^0 C in the Himalayas. For that reason, the winter months draw few tourists to Nepal. Even though I was on my own, I was not lonely as we ended up picking up and dropping off several locals on the way.

BLE Grade 8 English Model Exam Question 2081 2024 by NEB

After a full seven hours travel, we arrived at our first travel spot-Taopani, meaning a hot spring. The spring itself was a small but charming natural pool. While relaxing in the warm water, my tour guide shared about her life growing up in Nepal. She told me about the rustic daily living conditions. The natural beauty of the place combined with its loving people was something that could not be replaced anywhere else in the world.

A) The staff of the hotel in Pokhara were caring.
B) Travel permission is needed for non-Nepali tourists to enter Upper Mustang.
C) The writer's tour guide shared her experience while they were in the hot spring.
D) The writer's visit to Nepal was a memorable one.
E) Few tourists visit Nepal during the winter season.

3) Read the following text and fill in the blanks with the correct word(s) or phrase(s) from the text.

5 x 1= 5 marks

A Milkmaid had been out to milk the cows and was returning from the field with the shining milk pail balanced nicely on her head. As she walked along, her pretty head was busy with plans for the days to come.

"This good, rich milk," she mused, "will give me plenty of cream to churn. The butter I make I will take to market, and with the money I get for it I will buy a lot of eggs for hatching. How nice it will be when they are all hatched and the yard is full of fine young chicks. Then when May Day comes, I will sell them, and with the money I'll buy a lovely new dress to wear to the fair. All the young men will look at me. They will come and try to make love to me, —but I shall very quickly send them about their business!"

As she thought of how she would settle that matter, she tossed her head scornfully, and down fell the pail of milk to the ground. And all the milk flowed out, and with it vanished butter and eggs and chicks and new dress and all the milkmaid's pride.

Do not count your chickens before they are hatched.

A) The Milkmaid was carrying a/an…………on her head.
B) As the Milkmaid was walking, she was busy making …………… for future.
C) The first thing the Milkmaid planned to buy was/were……………..
D) The Milkmaid wished young men would notice her at the……………….
E) The story tells us not to…………. the chickens before they are hatched.

4) Read the following text and do the tasks that follow. **10 marks**

Laxmi Prasad Devkota was born on the night of Laxmi Puja Day in 1909 to Tilmadhav Devkota and Amar Rajya Laxmi Devi in Dillibazar, Kathmandu. He was born at a time when the Hindus including, his family, were worshiping Laxmi, the goddess of wealth. So, his parents took his birth as the greatest gift of the Goddess and accordingly, named him Laxmi Prasad— the blessings of Goddess Laxmi.

Devkota's father was a scholar in the Sanskrit language. Laxmi Prasad Devkota got his basic education at home under the guidance of his father. He completed Bachelor's Degree in liberal arts and law. Right after earning his bachelor's degree, Devkota started working as a personal tutor—a rigorous job, that lasted for hours every day. He had to do that to support his family.

During Devkota's time, the country was under Rana's dictatorial rule. Young Devkota knew the importance of education and he promised to do something to help educate the mass. But the idea was not well received by the then Rana rulers. They believed in the idea that the general people should continue to remain illiterate so that they would not go against them.

Devkota, as a student, was very intelligent. Right from an early age, he was keen on Nepali literature. At the early age of ten, he wrote a poem when he was studying in Durbar High School—the school set up for the education of the ruling Rana children. Children of ordinary people had to seek special permission to study in this school. Laxmi Prasad Devkota's father also had to run from pillar and post to ensure admission for his son in the Durbar High School.

A) Answer the following questions. **5 x 1 = 5 marks**

i) Where was Devkota born?
ii) Do you think Devkota took care of his family? Give a reason.
iii) At what age did Devkota write a poem?
iv) Who were the rulers during Devkota's time?
v) Was it easy for ordinary people to enter Darbar High School? Give a reason.

B) Match the meanings in 'Column A' with the words from the text given in 'Column B'. One word does not have a match. **5 x 1 =5 marks**

	Column A	Column B
i)	a group of people	a) permission
ii)	established or arranged something	b) guidance
iii)	unable to read and write	c) mass
iv)	common thing or people	d) set up
v)	advice or direction to do something	e) ordinary
		f) illiterate

5) Identify ten punctuation errors in the following paragraph. Rewrite the paragraph by correcting the errors. Underline where you have made correction. **10 x 0.5=5 marks**

"Where did you spend your last holiday I asked my friend, rohan who had just come back from a three-day long tour to pokhara. He replied, Oh, it was really wonderful. Weve enjoyed a lot He further added, "we went boating took photos and did paragliding." I told him that I would go with them next time He said, "Wow, what a nice idea that is"

6. You are the secretary of the child club of your school. As a part of your regular weekly programme, the club has decided to organise a sanitation programme at the school next week. Write an announcement in about 100 words on behalf of the child club using the following clues. **5 marks**

on 23 January 2025…. clean classrooms, corridors, and playgrounds, plant flowers, etc. ……. develop teamwork and responsibility …. all students, teachers, and staff …. contribute to making school a healthier and more beautiful place

7) Waste management has been a major problem in the world today. Although different efforts have been made by governments to manage the wastes, the issue has not been solved. Write an essay in about 200 words on 'Effective Ways of Managing Wastes'. In your essay, state the problem, its effects and possible solutions. **10 marks**

8) Rewrite the given sentences as indicated in the brackets. **5 x 0.5 = 2.5 marks**

A) Priya works in a bank. (Change into simple future.)

B) Harrish read me a story yesterday, …………… ? (Add a question tag.)

C) Dolma said to me, "Help me, please." (Change into indirect speech.)

D) Anupam is helping us. (Change into passive voice.)

E) Nobody will help me tomorrow. (Change into positive statement.)

9) Choose and copy the best answer from the given alternatives. **5 x 0.5 = 2.5 marks**

The bear is (1)….. (a, an, the, no article) animal. It (2)…. (can, must, can't, would) be found in black, brown and white colour. It has sharp teeth and a lot of fur (3)…. (in, to, at, on) its body. It can climb trees and eat fruits like berries. It (4)….. (loved, loves, is loving, will be loving) to eat fish and honey. Its hind legs (5)….. (gets, make, has made, makes) it stand on its own like human beings.

The End

Marking Scheme

1) Read the following text and write 'TRUE' for true and 'FALSE' for the false statements.
5 x 1 =5 marks

A) TRUE

B) FALSE

C) FALSE

D) TRUE

E) TRUE

2) Put the following sentences in correct order. 5x1=5 marks

A) Non-Nepali tourists cannot enter Upper Mustang easily.
B) The staff of the hotel in Pokhara were caring.
C) Few tourists visit Nepal during the winter season.
D) The tour guide shared her experience while they were in the hot spring.
E) The writer's visit to Nepal was a memorable one.

3) Read the given text and complete the sentences using the correct word(s) or phrase(s) from the text.
5x1=5 marks

A) (shining) milk pail
B) plans
C) eggs
D) fair
E) count

4) A) Answer the following questions. 5x1=5 marks

i) Any answer that mentions **'(Dillibazar) Kathmandu'**.

ii) Any answer that mentions '**Yes**' with the idea '**he worked as a personal tutor to support his family'**.

iii) Any answer that mentions **'at ten'**.

iv) Any answer that mentions **'the Ranas'**.

v) Any answer that mentions '**No'** with the idea **'they had to seek special permission'**.

B) Match the meanings in Column 'A' with the words from the text in Column 'B'. 5 x 1 =5 marks

Column A	Column B
i) a group of people	a) mass
ii) established or arranged something	b) set up
iii) unable to read and write	c) illiterate
iv) common thing or people	d) ordinary
v) advice or direction to do something	e) guidance

5) Identify ten punctuation errors in the following paragraph. Rewrite the paragraph by correcting the errors. Underline where you have made correction. 10 x 0.5=5 marks

"Where did you spend your last holiday?" I asked my friend, Rohan who had just come back from a three-day long tour to Pokhara. He replied, "Oh, it was really wonderful. We've enjoyed a lot." He further added, "We went boating, took photos and did paragliding." I told him that I would go with them next time. He said, "Wow, what a nice idea that is!"

6) Write a readable story in about 100 words using the following clues. Give a suitable title too. 5 marks

Use Common rubrics

7) Your community might have been facing different problems. Write a letter in about 200 words to the Ward Chairperson to take some immediate actions to solve them. In your letter, mention your problem, its causes, effects and probable solution. 10 marks

Use common rubrics

8) Rewrite the given sentences as indicated in the brackets. 5 x 0.5 = 2.5 marks

A) Priya will work in a bank.

B) didn't he?

C) Dolma requested me to help her.

D) We are being helped by Anupam.

E) Somebody will help me tomorrow.

9) Choose and copy the best answer for the numbered blanks below. Rewriting is not compulsory. 5x0.5=2.5 marks

1. a 2. can 3. on 4. loves 5. make

The End

Test Matrix – English Grade 8

Test set no.: ………………

SN	Skill area	Item Code	Text type	Item format	Marks	Vocabulary (5)	Literal comprehension (8)	Reorganization (4)	Inference (5)	Evaluation and reflection (3)
1)	**Reading 1**		Biography	T/F	5		1	1	3	
2)	**Reading 2**		Memoir	Ordering	5		1	2	1	1
3)	**Reading 3**		Story	Filling the blank	5		3	1	1	
4)	**Reading 4A**		Biography/Essay	SAQ	5		3			2
	Reading 4B		Biography/Essay	Matching	5	5				
5)	**Punctuation**				5					
6)	**Guided writing**		Announcement		5					
7)	**Free writing**		Essay		10					
8)	**Grammar (Reproduction 2.5)**				2.5					
	Grammar (Multiple choice 2.5)				2.5					
		Total			**50**	**5**	**8**	**4**	**5**	**3**

***Contributors*: NEB Item Development Training Participants, Pokhara 2081, Kartik**

Butwal Submetropolitan
Basic Level Examination-2081

Class : 8 Subject : Mathematics

Time : 2 hrs. Full Marks: 50

सबै प्रश्नहरु अनिवार्य छन् (All the questions are compulsory.)

१. दुइवटा समूहहरु M र N लाई तल प्रस्तुत गरिएको छ।
(Two sets M and N are presented below)

$M = \{a, p, l, e\}$ $N = \{p, a, n\}$

a. के समूह M र N खप्टिएका समूहहरु हुन् ? कारण दिनुहोस्।
(Are the sets M and N overlapping sets? Give Reason) [1]

b. समूह M बाट कतिवटा उपसमूह बनाउन सकिन्छ ?
(How many subsets can be made from set M?) [1]

c. दिइएका समूहहरु M र N लाई भेनचित्रमा देखाउनुहोस् ?
(Represent the given sets M and N in Venn diagram) [1]

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२. कृपाले एउटा ल्यापटपको मूल्य रु. १,२०,०००/- तोकिन्।
(Kreepa marks a Laptop with a Price of Rs. 1,20,000/-)

a. यदि नाफा प्रतिशत, क्रयमूल्य, र विक्रयमूल्यलाई क्रमशः P%, C.P र S.P ले जनाउने हो भने क्रय मूल्य (C.P.) निकाल्ने सुत्र लेख्नुहोस्।
(If profit percent, cost price and selling price are denoted by P%, C.P. and S.P. respectively. Write the formula to find cost price (C.P.)) [1]

b. यदि 15% छुट दिइयो भने उक्त ल्यापटपलाई कति पर्ला ?
(What will be the price of laptop, if 15% discount is given?) [2]

c. यदि नाफा रु. 10,000 भए क्रय मूल्य पत्ता लगाउनुहोस्।
(Find the cost price, if profit amount is Rs. 10,000) [1]

३. श्रीयांशले २ वर्षको लागि १०% वार्षिक साधारण ब्याजदरमा रु. २५,००० बैंकमा जम्मा गरेछन्।
(Shriyansh deposited Rs. 25,000 in a bank at the rate of 10% p.a. simple interest for 2 years)

a. वार्षिक ब्याजदर १०% भन्नाले के बुझिन्छ ?
(What do you mean by rate of interest 10% p.a.?) [1]

Butwal Submetropolitan BLE Class 8 Question Paper 2081 - Sub Math

b. २ वर्षको ब्याज पत्ता लगाउनुहोस् ।
(Find the interest for 2 years.) [1]

c. मिश्रधनलाई 2:3 को अनुपातमा विभाजन गर्नुहोस् ?
(Divide the amount into two parts in the ratio 2:3.) [2]

४. a. वैज्ञानिक संकेतमा लेख्नुहोस् ।
(Write in scientific notation.): 2360000 [1]

b. यदि 2, 6, x, 27 समानुपातमा छन् भने x को मान पत्ता लगाउनुहोस् ।
(If 2, 6, x, 27 are in proportion, find the value of x.) [2]

c. $0.\overline{34}$ लाई भिन्नमा रुपान्तरण गर्नुहोस् ।
(Convert $0.\overline{34}$ into fraction.) [2]

d. पञ्चआधार संख्या पद्धतिमा रुपान्तरण गर्नुहोस् । : $(68)_{10}$
Express in quinary number system : $(68)_{10}$ [1]

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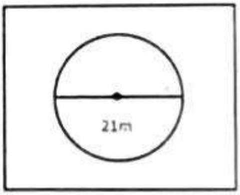
५. ४० मि. लम्बाई भएको वर्गाकार जग्गाभित्र २१ मि. व्यास भएको वृत्ताकार बगैंचा बनाइएको छ।
(A circular garden having diameter 21m is made inside the plot which is in the shape of square of length 40m)



a. वृत्तको क्षेत्रफल निकाल्ने सुत्र लेख्नुहोस् ।
(Write the formula to find area of circle) [1]

b. वृत्ताकार बगैंचाको क्षेत्रफल पत्ता लगाउनुहोस् ।
(Find the area of circular garden) [1]

c. वृत्त बाहेकको जग्गाको क्षेत्रफल पत्ता लगाउनुहोस् ।
(Find the area of land excluding the area of circle) [2]

d. यदि उक्त बगैंचा २० मि. भुजा भएको समबाहु त्रिभुजाकार भएको भए कति जग्गा बाँकी रहन्थ्यो ?
(If the garden be equilateral triangle having a side 20m how much plot could be remained ?) [1]

६. a. $a^3 \times a^5$ लाई a को घाताङ्कको रुपमा व्यक्त गर्नुहोस् ।
(Express $a^3 \times a^5$ as power of a) [1]

b. सरल गर्नुहोस् (Simplify): $x^{a^2-b^2} \times x^{b^2-c^2} \times x^{c^2-a^2}$ [2]

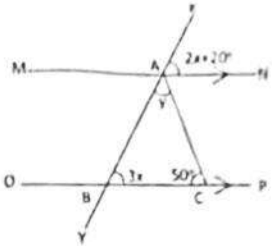
७. a. हल गर्नुहोस् (Solve.): $\frac{1}{x} + \frac{1}{x+1} = \frac{2}{x-1}$ [2]

b. म.स. पत्ता लगाउनुहोस् (Find H.C.F.): $x^2 - 9$ *and* $x^2 - 5x + 6$ [2]

८. a. x- अक्षको समिकरण लेख्नुहोस् ।
(Write the equation of x-axis) [1]

b. लेखाचित्रको प्रयोग गरि हल गर्नुहोस् ।
(Solve graphically): $x + y = 7, \quad x - y = 1$ [2]

९. सगै दिइएको चित्रमा दुईवटा समानान्तर रेखाहरु MN र OP लाई एउटा सिधा रेखा XY ले बिन्दु A र B मा काटेको छ ।
(In the adjoining figure, two parallel lines MN and OP are intersected by a straight line XY at the points A & B respectively.)



a. एक जोडी संगत कोणको नाम लेख्नुहोस् ।
(Write a pair of corresponding angles) [1]

b. x को मान पत्ता लगाउनुहोस् ।
(Find the value of x) [2]

c. कोणहरुको ∠CAB र ∠ABC विच तुलना गर्नुहोस् ।
(Compare the angles ∠CAB and ∠ABC) [1]

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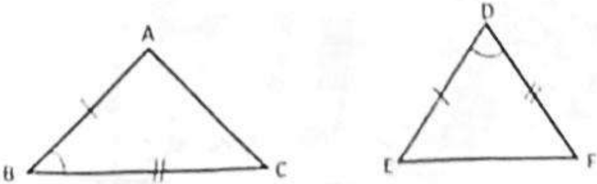
१०. a. PQ=6cm, QR=5cm र $\angle PQR = 75^o$ भएको एउटा समानान्तर चतुर्भुज PQRS रचना गर्नुहोस् ।
(Construct a parallelogram PQRS having PQ=6cm, QR=5cm and $\angle PQR = 75^o$) [3]

b. कुन तथ्यका आधारमा ΔABC र ΔDEF अनुरुप छन् ? एकजोडी सङ्गति कोणको नाम पनि लेख्नुहोस् ।
(By which axiom ΔABC and ΔDEF are congruent ? Also write a pair of corresponding angles.) [3]



Basic Level Examination-2080

आधारभूत तह परीक्षा-२०८०

Kathmandu Metropolitan City

विषय : गणित

(Subject: Mathematics)

Full marks: 50

Time : 2 hrs

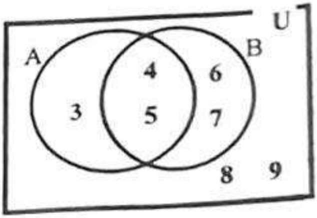
Class : 8

[Candidates are required to give their answers according to the given instructions.]

सबै प्रश्न अनिवार्य छन् । All questions are compulsory.

1. सर्वव्यापक समूह U का उपसमूहहरू A र B लाई भेनचित्रमा प्रस्तुत गरिएको छ ।

   The subsets A and B of universal set U are presented in the Venn diagram.



   a) समूह A र समूह B खप्टिएका वा अलगिएका कस्ता समूह हुन् पहिचान गरी लेख्नुहोस् ।

   Identify and write whether the sets A and B are overlapping or disjoint ? [1]

   b) समूह B बाट बन्ने अनुपयुक्त उपसमूह उल्लेख गर्नुहोस् ।

   Illustrate the improper subset can be made from set B. [1]

   c) समूह A बाट भन्दा समूह B बाट कति कम वा बढी उपयुक्त उपसमूहहरू बनाउन सकिन्छ ?

   How many more or less proper subsets can be made from set B than from the set A? [1]

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KMC BLE Class 8 Exam Question 2080- Mathematics

2. राष्ट्रिय जनगणना २०७८ अनुसार काठमाडौं जिल्लाको जनसङ्ख्या 2041587 थियो ।

According to the National Census 2078, the population of Kathmandu district was 2041587

a) सङ्ख्या 2041587 आनुपातिक वा अनानुपातिक कस्तो सङ्ख्या हो पहिचान गरी लेख्नुहोस् ।

Identify and write whether the number 2041587 is a rational or irrational number [1]

b) 2041587 लाई वैज्ञानिक सङ्केतमा लेख्नुहोस् । Write 2041587 in scientific notation [1]

c) प्रमाणित गर्नुहोस । Prove that $2078 = 31303_5$ [2]

3. एकजना पसलेले एउटा टेलिभिजनको अङ्कित मूल्य रु. 40,000 कायम गरेछन् । उनले उक्त टेलिभिजनमा 10% छुट दिइ बेच्दा रू. 4,000 नाफा गरेछन् ।

A shopkeeper marked the price of a television Rs. 40,000. He/She sold the television after allowing 10% discount and made a profit of Rs. 4,000.

a) अङ्कित मूल्य (MP) र छुट रकम (DA) दिइएको अवस्थामा छुट प्रतिशत (D%) पत्ता लगाउने सूत्र लेख्नुहोस् ।

Write the formula to find discount percentage (D%) when marked price (MP) and discount amount (DA) is given. [1]

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b) उक्त टेलिभिजनको विक्रय मूल्य पत्ता लगाउनुहोस् । Find the selling price of the television. [2]

c) पसलेले सो टेलिभिजन कतिमा किनेको रहेछ ? पत्ता लगाउनुहोस् । How much money did the shopkeeper pay for the television ? Find. [1]

d) यदि एउटा टेलिभिजनमा रू. 6400 नाफा भए रू. 1,50,000 नाफा बनाउन कम्तिमा कति ओटा टेलिभिजन बेच्नुपर्ला ?

If Rs. 6400 is the profit in a television, how many televisions should be sold to make at least Rs. 1,50,000 profit? [1]

4. रोहनले आफूसँग भएको रकमलाइ बैंक X र बैंक Y मा 5:4 को अनुपातमा जम्मा गरेछन् । उनले बैंक X मा रू. 80,000 जम्मा गरेछन् ।

Rohan deposited the money he had, in bank X and bank Y in the ratio of 5:4. He deposited Rs. 80,000 in the bank X.

a) रोहनले बैंक Y मा कति रकम जम्मा गरेका रहेछन् ? पत्ता लगाउनुहोस् ।

How much money did Rohan deposit in the bank Y? Find it. [1]

b) रोहनले बैंक X बाट वार्षिक 10% ब्याजदरले 2 वर्षमा कति साधारण ब्याज प्राप्त गर्छन् ? पत्ता लगाउनुहोस् ।

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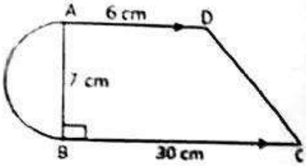
How much simple interest will Rohan obtain in 2 years at the rate of 10% per annum from bank X? Find it. [2]

c) रोहनले बैंक X बाट प्राप्त गरेजत्तिकै ब्याज सोही ब्याजदरमा बैंक Y बाट प्राप्त गर्न कति समय बचत गर्नुपर्ला ? गणना गरी लेख्नुहोस् ।

For how many years will Rohan have to deposit the amount in bank Y to get the equal interest, obtained from bank X with the same rate ? Write with calculation. [2]

5. दिइएको चित्रमा समलम्ब चतुर्भुजको बायाँ भागमा अर्धवृत्ताकार आकृति देखाइएको छ । समलम्ब चतुर्भुजका दुई समानान्तर भुजाहरूको नाप 6 से.मी. र 30 से.मी. छ भने त्यसको उचाई 7 से.मि. छ ।

In the given figure, a shape of semicircle is shown left side of the trapezium. The lengths of two parallel sides of trapezium are 6 cm and 30 cm respectively with it's height of 7 cm.



a) अर्धव्यास r से.मि. भएको वृत्तको क्षेत्रफल पत्ता लगाउने सूत्र लेख्नुहोस् । Write the formula for finding area of circle having radius r cm. [1]

b) समलम्ब चतुर्भुजको क्षेत्रफल पत्ता लगाउनुहोस् । Find the area of trapezium. [1]

c) अर्धवृत्तको क्षेत्रफलभन्दा समलम्ब चतुर्भुजको क्षेत्रफल कतिले कम वा बढी छ ? गणना गर्नुहोस् । How much the area of the trapezium is more or less than the area of semicircle? Calculate it. [2]

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d) समलम्ब चतुर्भुज ABCD मा विकर्ण AC खिच्दा बन्ने दुई त्रिभुजहरू ADC र ABC को क्षेत्रफलबिच तुलना गर्नुहोस् ।

Compare the areas of two triangles ADC and ABC formed by drawing a diagonal AC in a trapezium ABCD. [1]

6. a) x^m र x^{-m} को गुणनफल कति हुन्छ ? लेख्नुहोस् । What is the product of x^m and x^{-m} ? Write. [1]

b) सरल गर्नुहोस् । Simplify: $\frac{a^2-9}{a^2-5a+6} \div \frac{a+3}{3a-6}$ [2]

7. तल एउटा बिजीय अभिव्यञ्जक दिइएको छ । An algebraic expressions is given below.

$$2x^2 + 5x + 2$$

a) माथिको बिजीय अभिव्यञ्जकबाट बन्ने बिजीय पत्ति (टायल) हरूको नमुना बनाइ आयताकार रूपमा प्रस्तुत गर्नुहोस् ।

Make the algebraic tiles from the above algebraic expressions and present it in a rectangular form. [2]

b) x को मान कति हुँदा $2x^2 + 5x + 2 = 0$ हुन्छ ? What should be the value of 'x' to be $2x^2 + 5x + 2 = 0$? [2]

8. दुई ओटा सङ्ख्याहरूको योगफल 6 र फरक 2 छ। The sum of two numbers is 6 and their difference is 2.

a) पहिलो सङ्ख्यालाई x र दोस्रो सङ्ख्यालाई y मानेर कुनै एउटा समीकरण बनाउनुहोस्।

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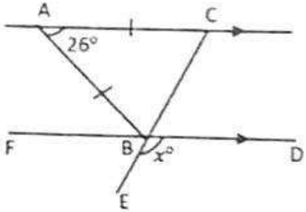
Make an equation by supposing x as the first number and y as the second number. [1]

b) लेखाचित्रको प्रयोग गरी माथिका समीकरणहरूको हल गर्नुहोस्।
Solve the above equations by using graph. [2]

9. दिइएको चित्रमा ΔABC समद्विबाहु त्रिभुज हो। जहाँ AC//FD तथा $\angle CAB = 26^\circ$ र $\angle DBE = x^\circ$ दिइएको छ। In the figure, ΔABC is an isosceles triangle. Where, AC//FD, $\angle CAB = 26^\circ$ and $\angle DBE = x^\circ$ are given.



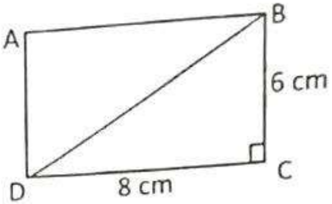
a) कोण ∠ACB सँग बराबर हुने एकान्तर कोणको नाम लेख्नुहोस्। Write the name of alternate angle that is equal with ∠ACB. [1]

b) x° को मान कति हुन्छ ? पत्ता लगाउनुहोस्। What is the value of x° ? Find it. [2]

c) फरक फरक नापका दुईओटा समद्विबाहु त्रिभुज ABC बनाई आधार कोणहरू ∠ABC र ∠ACB बराबर हुन्छन भनी प्रयोगबाट परीक्षण गर्नुहोस्। Experimentally verify that the base angles ∠ABC and ∠ACB of an isosceles triangle ABC are equal by making two different size of isosceles triangle. [3]

10. चित्रमा लम्बाइ 8 cm र चौडाई 6 से.मि. भएको आयत ABCD मा विकर्ण BD खिचिएको छ।

In the figure, A diagonal BD is drawn in the rectangle ABCD having length 8 cm and breadth 6 cm.



a) दिइएको नापअनुसार कम्पासको प्रयोग गरी आयत ABCD को रचना गर्नुहोस्।

According to the given measurement construct the given rectangle ABCD by using compass. [3]

b) त्रिभुजहरू ABD र CDB कुन तथ्यबाट अनुरूप छन् ? तथ्य र कारणसहित पुष्टि गर्नुहोस्।

By which axiom, triangles ABD and CDB are congruent ? Justify with facts and reason. [2]

c) यदि D बाट बिन्दु B मा बनेको दिशास्थिति 050° छ भने बिन्दु D बाट बिन्दु B मा बनेको दिशास्थिति र बिन्दु B बाट बिन्दु D मा बन्ने दिशास्थितिबिच तुलना गर्नुहोस्। If the bearing of point B from point D is 05-0°,compare the bearing of B from point D and bearing of D from the point B. [2]

11. a) विन्दु P (x, y) लाइ *a* एकाइ दायाँ र b एकाइ तल विस्थापन गर्दा बन्ने प्रतिबिम्बको निर्देशाङ्क लेख्नुहोस्।

Write the coordinate of the image when the point P (x, y) is displaced *a* unit to the right and *b* unit to down. [1]

b) 3 से.मि नाप भएका चारवटा समबाहु त्रिभुजबाट बन्ने टेट्राहेड्रनको नेट बनाउनुहोस्।

Construct a net of tetrahedron formed by four equilateral triangles having a side 3 cm. [1]

12. तल दिएको तालिकामा एउटा परिवारले एक महिनामा खाना, शिक्षा, स्वास्थ्य र विविध शीर्षकमा गरेको खर्चको विवरण दिइएको छ।

In the table given below, the expenses have done by a family in a month on food, education, health and miscellaneous are given.

शीर्षक (Titles)	खर्च रकम रु. मा (Amount of Expenditure in Rs.)
खाना (Food)	12000
शिक्षा (Education)	8000
स्वास्थ्य (Health)	6000
विविध (Miscellaneous)	10000

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a) माथिको तथ्याङ्कलाई वृत्त चित्रमा प्रस्तुत गर्नुहोस्। Represent the above information in the pie-chart. [2]

b) माथिको तालिका अनुसार उक्त परिवारको औसत खर्च रू. 9000 रहेछ। औसत खर्च रू. 8500 बनाउन विविध शीर्षकको खर्च रकम कति घटाउनुपर्ला ?
The average expenditure of the family according to the above table is Rs. 9000. How much money should be reduced from miscellanceous expenses to make average expenses Rs. 8500 ? [1]

'The End'

Melamchi Municipality
Basic Level Final Examination: 2080
Subject: English

Grade: 8 (Eight) **Full Marks:** 50
Time: 2 hours
All questions are compulsory.

1. Read the poem and fill in the blanks using the words/phrases from the text. [5×1=5]

If I was a Superhero
If I was a superhero,
I'd definitely fly.
Arms outstretched,
Racing birds in the sky.

If I was a superhero,
I'd have special powers.
Like extra strong legs
For jumping over towers.

If I was a superhero,
I'd save all the oceans,
With my secret and magical
Cleaning up potions.

If I was a superhero
I'd save all the trees
And the mountains and rivers,
The birds and the bees.

If I was a superhero,
I'd help all the poor,
Give them food,
And make them hungry no more.

If I was a superhero,
I'm sure you'll agree,
The world would be better,
Because of me!

Sally Gray

a. The speaker wanted to fly stretching the.........
b. The strong legs would be used to ....over the towers.
c. The speaker wanted to be a ....
d. He would save all the hills............ and rivers.
e. The .... would be a better place because of the speaker.

Melamchi Municipality BLE Class 8 Exam Question 2080 - Subject English

2. Read the following request letter and answer the questions. [5×1=5]

Kushma - 9, Parbat
27 April 2023
The Headteacher
Adarsha Secondary School
Kushma, Parbat

Subject: A Request to increase computer lab facilities

Respected Sir,

We are very grateful that you have been successful in establishing a computer lab at our school. We are overjoyed seeing a computer lab at our school. The lab provides us with the most up-to-date learning devices. It helps us gain technological knowledge too.

This admirable effort, however, is not quite sufficient in accomplishing its goal. In fact, the lab is lacking some necessary equipment. To begin with, there are insufficient numbers of computers. Second, only a few computers have the required software installed. This limits our learning. Third, our lab does not have an internet connection. So, we cannot access the vast world of knowledge and information.

We would be thankful if you provided us with all the necessities for a modern computer lab at our school. We would welcome your reply to our request. Thank you.

Yours faithfully,
Students of Grade 8

a. Where is the letter written from?
b. Why are the students grateful to the headmaster?
c. How does the computer lab help in learning?
d. What facilities are lacking in computer labs?
e. Who is demanding more sufficient computers?

3. Read the instructions and put the sentences in the correct order. [5×1=5]

Downloading Photographs from the MC- 250 Duel Zone Digital Camera

Note: MC-250 Dual Zone software must be loaded on your computer to download photographs from the camera.

1. First, turn your computer on.
2. Then, plug the camera's USB cable into your computer.
3. Turn the camera's mode dial to the data transfer setting.
4. Add graphics to create a quick visual cue. To show the object's size, use the reference. Open the camera's flash card door and plug the other end of the USB cable into the camera port.
5. Select USB transfer from the camera screen menu. The MC-250 Dual Zone software will then lunch onto your computer.
6. Follow the instructions on the computer screen to download all of your photos or specific photos.
7. When your download is complete, turn the camera off and unplug the USB cable from the camera and the computer.
   Note: If MC-250 Dual Zone software doesn't launch, disconnect the camera (step 7), and then restart the computer and continue on from step 2.

a. Turn the data transfer on.
b. Turn off the camera after the download complete.
c. Open the camera's flash- card door and plug the other end of the USB cable into the camera port.
d. To download photographs from the MC-250 Dual Zone Digital Camera, we should turn on the computer first.
e. Plug the camera's USB cable into your computer.

4. Read the given text and do the tasks that follow. [10]

Once upon a time, in the big forest, there were many trees. Among the cluster of trees, there was a very tall pine tree. He was so tall that he could talk to the stars in the sky. He could easily look over the heads of the other trees. One day late in the evening, the pine tree saw a ragged, skinny girl approaching him. He could see her only because of his height. The little girl was in tears. The pine tree bent as much as he could and asked her, "What is the matter? Why are you dying? The little girl, still sobbing, replied," I was gathering flowers for a garland for goddess Durga, who I believe, would help my parents to overcome their poverty and I have lost my way." The pine tree said to the little girl," It is late in the evening. It will not be possible for you to return to your house, which is at the other end of the forest. Sleep for the night at this place." The pine tree pointed out to frightened of wild animals. The girl quickly crept into the cave- like place. The pine tree was happy and pleased with himself. He stood like a soldier guarding the place. The little girl woke up in the morning and was amazed to see the pine tree standing guard outside the cave. Then her gaze travelled to see the heap of flowers that she had gathered the previous night. The flower lay withering on the ground. The pine tree understood what was going on in the girl's mind. He wrapped his branches around the nearby flower trees and shook them gently. The little girl's eyes brightened. But a great surprise awaited her. The pine tree brought out a bag full of gold coins which had been lying for years in the hole in its trunk and gave it to the girl. With teary eyes she thanked her benefactor and went away.

A. Match the words in column A with their meanings in column B. [5×1=5]

Column A	Column B
a. cluster	i. crying
b. sobbing	ii. a group of similar things
c. frightened	iii. look steadily
d. gaze	vi. an unexpected or astonishing event, fact, etc.
e. surprise	v. got afraid

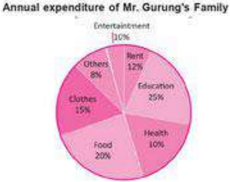
B. Answer the following questions. [5×1=5]

a. Why was the little girl crying when she approached the pine tree?
b. Where did the pine tree want the little girl to sleep for the night?
c. What did the pine tree do to help the little girl feel better about losing her flowers?
d. Why was the little girl disappointed when she looked at the flowers?
e. What message does this story give us?

5. **Identify <u>ten errors</u> in the given paragraph. Rewrite the paragraph by correcting the errors. [10×0.5=5]**

One sunny day, nima and Dawa went to the zoo in jawalakhel. they saw different kinds of animals in the zoo. I enjoy visiting the zoo, said Nima. Dawa found that Nima lost her lunch bag 'Do we have any money to buy food' asked Nima. Dawa replied 'No' Now we dont have anything for the lunch. pemba came there. Nima Dawa and Pemba started searching for the lunch bag.

6. **Look at the pie chart bellow and interpret the details in your own words in about 100 words. 5]**



7. **Your brother is weak in English. Write a letter suggesting him ways and means to improve his English. [10]**
8. **Rewrite the given sentences as indicated in the bracket. [5×0.5=2.5]**
   a. They constructed a new bridge. (Change into passive voice.)
   b. Look! Someone......... (knock) at the door. (Supply the correct form of the verb.)
   c. The teacher said, "The sun rises in the east." (Change into indirect speech.)
   d. The shop is near the school. (Change into 'Where question.')
   e. They'd rather be late,......... ? (Change into question tag.)

9. **Choose and copy the best answer for the numbered blanks below. (Rewriting is not compulsory.) [5×0.5=2.5]**

Mt. Everest which lies in Nepal is ......1...(a, an, the) tallest mountain in the world. It is 8848.86 meters ....2..........(in, over, above) sea level. '*Sagarmatha*' is the Nepali name of Mt. Everest. It has always fascinated climbers. Climbing Mt. Everest is tough and hazardous.......3........(because, because of, although) excessive snow. If there is no snow, it.......4.....(wouldn't be, won't be, wouldn't have been) difficult to climb the mountains. Every year, hundreds of climbers from around the globe flock to Everest, drawn by the allure of conquering the world's highest peak. Mountains always look exciting and the mountaineers feel that the mountains are challenging to them. This feeling makes them ......5.....(accept, to accept, accepted) the challenge. The mountain has become increasingly crowded, leading to concerns about safety, environmental impact, and ethical practices among climbers and expedition companies.

The End

ललितपुर महानगरपालिका

वार्षिक परीक्षा–२०८१

कक्षा : ८ | पूर्णाङ्क : ५०

विषय : नेपाली | समय : २ घण्टा

१. दिइएको अर्थसँग मिल्ने शब्द खाली ठाउँमा लेख्नुहोस् : (२)

बुर्जा दर्शनीय मिजास संवर्धन सम्भावित

(क) हेर्न लायक ....

(ख) राम्ररी बढाउने काम ....

(ग) शीलस्वभाव ....

(घ) घर, दरबार आदिको माथिल्लो तलामा चारैतिर खुला हुने गरी बनाएको कोठा......

२. खाली ठाउँमा मिल्दो शब्द राखी वाक्य पूरा गर्नुहोस् : (२)

(क) 'साथी' को पर्यायवाची शब्द .... हो । (असल, मित्र, अधैर्य)

(ख) 'सक्रिय' को विपरीतार्थी शब्द .... हो । (निस्क्रिय, लज्जित, कर)

(ग) .... श्रुतिसमभिन्नार्थी शब्द हुन् । (जाती-जाति, खेती-पानी, तरल-गरल)

(घ) 'तरकारी' को समावेश्य शब्द .... हो । (जुनार, घिरौंला, मेवा)

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३. अर्थ खुल्ने गरी वाक्यमा प्रयोग गर्नुहोस् : (२)

भूक्षय, खाने मुखलाई जुँगाले छेक्दैन

४. शुद्ध शब्द छानेर लेख्नुहोस् : (१)

(अ) शमस्या समश्या शमष्या समस्या

(आ) संबोधन सम्बोधन सङ्बोधन सन्बोधन

५. दिइएको वाक्यलाई शुद्ध पारी लेख्नुहोस् : (२)

हरेक बिहानीको सुर्योदयसँगै राष्ट्रभक्ती भावनाका साथ केही गरू भन्ने चेतना ममा छ

६. रेखाङ्कित शब्दको पदवर्ग छुट्याउनुहोस् : (२)

<u>एक</u> दिन <u>त</u> गुलाफी <u>खाना</u> पकाउने समय भइसक्दा पनि <u>आइनन्</u> ।

७. कोष्ठकमा दिइएको धातु र सङ्केतका सहायताले खाली ठाउँ भर्नुहोस् : (२)

(क) बहिनी गीत .... । (लेख् : अपूर्ण भविष्यत)

(ख) म सानोमा खुब काम ....। (गर् : अभ्यस्त भूत)

(ग) भरे पानी ....। (पर्: सम्भावनार्थ)

(घ) तिमी बजार...................... । (जा: आज्ञार्थ)

८. दिइएका सङ्केतका आधारमा वाक्य परिवर्तन गर्नुहोस् : (३)

(क) त्यो केटो मिहिनेती छ । (बहुवचन)

(ख) बुबाले मोटर हाँक्नुभयो । (अकरण)

(ग) हरि उपन्यास लेख्छ । (कर्मवाच्य)

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९. **दिइएको अनुच्छेद पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् :** (३)

बडिमालिका बाजुरा जिल्लामा अवस्थित धार्मिक तथा प्राकृतिक दुवै हिसाबले चर्चित स्थल हो । त्यहाँको बाटोघाटो पनि सुगम छ । बाजुरा जिल्लाको सदरमुकाम मार्तडीबाट तीन चार दिनको पैदल यात्रापश्चात् त्यहाँ पुग्न सकिन्छ । बडिमालिका प्रसिद्ध शक्तिपीठ हो । बडिमालिकाको दर्शन गर्नाले मनोकामना पूरा हुने जनविश्वास छ । त्यहाँबाट अपिसैपाल हिमशृङ्खलाको सुन्दर दृश्यका साथै कालिकोट मुगु, अछाम, जुम्ला हुम्ला आदि क्षेत्रका अग्ला अग्ला पहाड पनि देख्न सकिन्छ ।

प्रश्नहरू:

(क) अनुच्छेदबाट उपसर्ग लागेको र प्रत्यय लागेर बनेको एउटा शब्द पहिचान गरी लेख्नुहोस् ।

(ख) अनुच्छेदबाट द्वित्व भएर बनेको एउटा शब्द र एउटा समस्त शब्द पहिचान गरी लेख्नुहोस् ।

(ग) अनुच्छेदमा रेखाङ्कन गरिएको शब्दको कारक र विभक्ति पहिचान गरी त्यसको नाम लेख्नुहोस् ।

१०. **दिइएको गद्यांश पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् :** (४)

खेलकुदले मान्छेलाई हुर्कन, बढ्न र तन्दुरुस्त राख्न मदत गर्दछ । दौड मान्छेको लागि ठुलो औषधी नै हो । बिहानको दौडले असन्तुलित ढङ्गले मोटाएका मान्छेहरू छरिता भई जीवनयापन गर्न सफल भएका उदाहरण प्रशस्त पाइन्छन् । खेलकुदले मान्छेलाई निकै ठुलो फाइदा गर्छ । व्यक्तित्वको विकास गर्नेजस्ता राम्रा राम्रा फाइदाहरू खेलकुदबाट हुन्छ । खेलकुदले शरीर तथा दिमागलाई स्वच्छ राख्नुका साथै फुर्तिलो र जाँगरिलो बनाउँछ । त्यसकारण मानिसले अनेक प्रकारका खेलहरू खेल्नुपर्छ । खेलकुद र श्रममा पनि खासै फरक छैन । त्यसैले कठोर श्रम गर्ने किसानहरू स्वस्थ हुन्छन् । यिनीहरूका लागि व्यायामको आवश्यकता पर्दैन तर केवल मानसिक श्रमको भरमा जीवनयापन गर्नेहरूका लागि भने यो अत्यन्तै आवश्यक छ । त्यसकारण विद्यालयहरूमा केवल पढाउने काम मात्र नभई खेलकुद पनि अनिवार्य रूपमा समावेश रहनुपर्छ ।

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प्रश्नहरू:

(क) बिहानको दौडले के काम गर्छ ?

(ख) खेलकुदबाट हुने फाइदाहरू के के हुन् ?

(ग) मजदुर किसानहरूलाई किन व्यायाम चाहिँदैन ?

(घ) विद्यालयमा खेलकुद अनिवार्य गर्नुपर्ने कारण के हो ?

११. **दिइएको अनुच्छेदबाट चारओटा बुँदा टिपोट गरी एक तृतीयांशमा सारांश लेख्नुहोस्:** (४)

मेरी हजुरआमा परिवारको भविष्य निर्माता नै हुनुहुन्छ । उहाँको ममता नपाएको भए म कस्तो हुन्थेँ होला । कति धेरै वात्सल्यको खानी छ उहाँमा । आँखामा राखे पनि नबिझाउने मेरी हजुरआमा ! अहिले निधारभरि चाउरी परेका रेखैरेखा

देखिन्छन् । गालासमेत भित्र पसिसकेका छन् । लट्ठी टेकेर हिँड्नुहुन्छ । कडा मिजास चाहिँ अझै बाँकी छ । यस उमेरमा पनि दिनहुँ खेतबारीसम्म पुगेर आउनुहुन्छ । उहाँका न कान बन्द छन् न त आँखामा चस्मा लगाउनुपर्ने अवस्था छ । (कोठामा यताउति घुम्दै) आफू त परिवारको कान्छो सदस्य मैले उपहार नै दिनुपर्छ भन्ने के छ र । भोलि पर्सि कमाउन थालेपछि दिउँला । ओहो ! म किन यसरी चिन्तित भएको हुँला ?

१२. कुनै एक प्रश्नको उत्तर दिनुहोस् : **(३)**

(क) दिइएका बुँदाका आधारमा कथा तयार पारी शीर्षकसमेत राख्नुहोस् :

एउटा ठूलो नदी............नदीमा गोही बस्नु ....नदीको छेउमा एउटा ठुलो रुख .... रुखमा बाँदर बस्नु .... बाँदर र गोहीका बिचमा मित्रता हुनु .... बाँदर दिनभर डुलेर मिठामिठा फलफूल लिएर आउनु .... गोहीले पनि फलफूल खानु .... फलफूल खान पाएपछि गोहीले यति मिठा फलफूल खाने बाँदरको मुटु कलेजो कति मिठो होला, त्यसको मुटु कलेजो खान पाए त भन्ने सोच्नु .... गोहीले बाँदरको मुटु कलेजो खाने सोचले बाँदरलाई नदी घुमाउन लैजान्छु भन्नु .... बाँदरलाई गोहीले तँलाई यहाँ घुमाउन ल्याएको होइन, तेरो मुटुकलेजो खान यहाँ ल्याएको हुँ भन्नु .... बाँदरले तुरुन्त उपाय खोजी 'मुटु कलेजो उही रुखमा छोडेर आएँ, खाने भए उहाँ जाऔं भन्नु .... बाँदरलाई पहिलेकै ठाउँमा ल्याइपुऱ्याउनु ....बाँदर हतपत रुख चढ्नु र अब खालास् मेरो मुटु कलेजो, तँजस्तो धोकेबाज कहिल्यै मेरो मित्र हुन सक्दैनस् भन्नु ....साथीलाई धोका दिन नहुने सन्देश ।

ख) 'स्वच्छ वातावरण' शीर्षकमा दुई जना साथीबिच हुने संवादको नमुना तयार पार्नुहोस् ।

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१३. कुनै एक प्रश्नको उत्तर लेख्नुहोस् : **(३)**

(क) विद्यालयमा स्वच्छ खानेपानीको व्यवस्था मिलाइदिन अनुरोध गर्दै प्रधानाध्यापकलाई एउटा निवेदन लेख्नुहोस् ।

(ख) कविता प्रतियोगितामा प्रथम भएका आफ्ना साथीलाई दिने बधाई पत्रको नमुना तयार पार्नुहोस् ।

१४. कुनै एकको भावविस्तार गर्नुहोस् : **(३)**

(क) उत्तरतिर हिउँचुलीको झन् बढ्ता खात र आलोक थियो ।

(ख) गाउँमा चर्किएका घरका भित्ताहरू
माटाले टालेर सुन्दर बनाउनु छ ।

१५. तलको कथांश पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् : **(४)**

डल्ले खोलामाथि एक दुईओटा काठ राखेको देखियो । आउने जानेले विश्वासको लामो सास फेरेर अब भने पुल बन्ने भयो । वर्षामासमा पनि सदरमुकाम पुग्न सकिने भयो । अब भने बाँचिने भयो । ती काठबाहेक त्यहाँ केही थपिएको देखिएन । अनि अर्को वर्षको भेलले ती काठ पनि त्यहाँबाट बगाइसकेको थियो ।

डल्ले खोला उस्तै भयो, जस्तै थियो । रनबहादुरका अवश्यकतालाई उसले पूरा गरिदियो र आफ्नै सुरले ऊ बगिरह्यो । उसको सपनाको पुलको लगत भयो । उसको सपनाको पुलको रकम निकासा भयो । र त्यो कहीँ कतै खर्च भयो र डल्ले खोलालाई लाग्यो, उसको फेरि एक पटक खिस्सी उडाइएको छ र ऊ व्यङ्ग्यबिच नाङ्गो उभिएको छ ।

प्रश्नहरू:

(क) डल्ले खोलामाथि आउने जानेले किन विश्वासको सास फेरे ?

(ख) भेल आएपछि डल्ले खोलाको अवस्था कस्तो भयो ?

(ग) रनबहादुरको आवश्यकतालाई डल्ले खोलाले कसरी पूरा गऱ्यो ?

(घ) यस कथांशको मूलभाव लेख्नुहोस् ?

१६. कुनै एक प्रश्नको उत्तर लेख्नुहोस् : **(५)**

(क) 'सहिदहरूको सम्झनामा' कविताको तलको अंश पढी सोधिएका प्रश्नको उत्तर दिनुहोस् :

ओठमा हाँसो गालामा लाली तब आउँछ जगतको
देशको पिरले भेटी जब वीरले चढाउँछ रगतको
घाँटीमा फाँसीको माला गाँसी वीरले हाँसता
मातृभूमिको चरण दोगी माग्दछ दासता ।

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प्रश्न

(अ) सहिदहरूको बलिदानको कारणले नै दासता अन्त्य भएको हो ? 'सहिदहरूको सम्झनामा' कविताको माथिको अंशलाई समेत आधार बनाएर समीक्षात्मक उत्तर लेख्नुहोस् ।

(ख) दिइएको कथांश पढी समीक्षात्मक उत्तर लेख्नुहोस् ।

जुजुमानको मानव देह चिताको खरानी भएर नाश भए पनि सङ्गमरमरको आकर्षक मूर्तिका रूपमा कृष्णावतार छोरो त कालान्तरसम्म रहिरहला । अब यही मूर्ति भाजुलालको अमर पुत्र हुन्छ ।

प्रश्न

(अ) कथांशका आधारमा 'मानिस मरेर गए पनि कला अमर रहन्छ' भंन्ने कुरालाई पुष्टि गर्दै समीक्षात्मक उत्तर लेख्नुहोस् ।

१७. कुनै एक शीर्षकमा १२५ शब्द नघटाई निबन्ध लेख्नुहोस् : **(५)**

(क) पुस्तकालयको महत्त्व

(ख) जल सम्पदाको संरक्षण

(ग) मेरो रमाइलो यात्रा

समाप्त

LALITPUR METROPOLITAN CITY

Final Examination- 2081

Class : 8 | Full Marks : 50

Sub : Science and Technology | Time: 2 hrs

समुह - क (Group - 'A')

बहुवैकल्पिक प्रश्नहरु (Multiple choice questions) (10 × 1 =10)

1. तलका प्रश्नको ठिक विकल्पमा गोलो चिन्ह (o) लगाउनुहोस् ।
   Circle the correct alternative of the following questions

a) कुनै क्षेत्रका किसानले रासायनिक वा प्राङ्गारिक मल मध्ये कुन बढी प्रयोग गर्छन् भनी अध्ययन गर्नुपरेमा तलका मध्ये कुन विधि उपयुक्त हुन्छ ?
   Which of the following methods is suitable if one has to study whether the farmers of a region use more chemical or organic fertilizers?
   i. अवलोकन (Observation) ii. परीक्षण (Test)
   iii. अनुसन्धान (Research) iv.सर्वेक्षण (Survey)

b) क्लाउड कम्प्युटिङको फाइदा तलका मध्ये कुन हो ?
   Which of the following is an advantage of cloud computing?
   i. क्लाउड माइग्रेसन (Cloud migration)
   ii. ग्लोबल स्केल (Global scale)
   iii. आइटी सुशासन (IT governance)
   iv. अप्रत्याशित लागत (Unexpected costs)

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c) सबलले कुनै सङ्कटापन्न बिरुवा संरक्षण गर्ने विचार गरे भने दिएका मध्ये कुनले एक्स सिटु संरक्षणको प्रतिबिम्बित गर्छ ?
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   Sabal is thinking to conserve an endangered plant. Which of the following action going to be taken by his represents the Ex-situ method of conservation?
   i. उनले सामुदायीक बनमा उक्त बिरुवा रोपे
      (He plants the plant in the community forest)
   ii. उनले भेटिएको बन क्षेत्रमा उक्त बिरुवा रोपे (He plants the plant in the same forest where it was obtained from)
   iii. उनले घरको फूलबारीमा उक्त बिरुवा रोपे
      (He plants the plant in his kitchen garden)
   iv. उनले खोलाको किनारमा उक्त बिरुवा रोपे
      (He plants the plant on a river bank)

BLE-Class 8 Science and Technology 2081 Exam Question Paper - Lalitpur Metropoli

d) दिइएका मध्ये कुन सजीवमा भित्री गर्भाधान क्रिया हुन्छ ?
Which of the following animal adopt internal fertilization?
i. छेपारो (Lizard) ii. भ्यागुता (Frog)
iii. गंगटा (Crab) iv. माछा (Fish)

e) कुन अवस्थामा वस्तुको औसत गति निकालिन्छ ?
At what condition is the average velocity of a body calculated?
i. शून्य प्रवेग (Zero acceleration)
ii. स्थिर अवस्था (Rest)
iii. समान चाल (Uniform motion)
iv. असमान चाल (Non-uniform motion)

f) 100 मिटर गहिराइ र गुरुत्व प्रवेग भएको ठाउँमा पानीको चाप कति हुन्छ ?
What is the pressure exerted by the water at the depth of 100 meter where the value of acceleration due to gravity is $9.8 m/s^2$? (Density of water is $1000 kg/m^3$)
i. 980Pa. ii. 9800Pa. iii. 98000Pa. iv. 980000Pa.

g) दिइएका मध्ये कुनमा विकिरण क्रिया भएको छ ?
In which of the following activities is heat transmitted by the radiation process?
i. घाममा राखेको चम्चा तातो हुन्छ । (Spoon kept in sunlight is heated)
ii. तातो पानीमा डुबाएको चम्चा तातो हुन्छ । (Spoon immersed in a hot water)
iii. स्पिट बत्तीमा तताएको चम्चा तातो हुन्छ । (Spoon kept above the sprit lamp is heated)
iv. तातो फलाम चिसो पानीमा राख्दा पानी तात्छ । (Water gets heated when the hot iron rod is kept in cold water)

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h) पृथ्वीको चुम्बकीय ध्रुवमा दिकपातको मान कति हुन्छ ?
What is the value of declination in the geomagnetic poles?
i. 0° ii. 17° iii. 45° iv. 90°

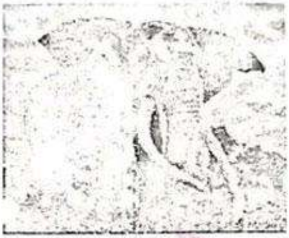
i) दिइएको रासायनिक प्रतिक्रिया पूरा गर्नुहोस् ।
Complete the given chemical equation. $CaCO_3 \rightarrow CaO + \ldots\ldots$
i. CO ii. C_2O iii. CO_2 iv. CO_3

j) पानीको स्थायी कडापन हटाउन कुन विधि प्रयोग गर्नुपर्छ ?
Which method should be used to remove the permanent hardness of water?
i. उमालेर (By boiling)
ii. क्लार्क विधि (Clark's method)
iii. परम्युटिट विधि (Permutit method)
iv. क्याल्सियम हाइड्रोअक्साइडको प्रयोग गरेर (Using calcium hydroxide)

समूह – ख (Group – 'B')

अति छोटो उत्तर आउने प्रश्नहरु (Very short answer questions). $(8 \times 1 = 8)$

2. कुनै एक अनुसन्धान प्रश्न लेख्नुहोस् ।
   Write any one research question.
3. वनस्पती कोषमा प्लाष्टिड नभए के हुन्छ होला ?
   What would happen if there were no plastids in plant cell?
4. हरितगृह प्रभाव भन्नाले के बुझिन्छ ?
   What is meant by greenhouse effect?
5. गतिह्रास भनेको के हो ? What is retardation?
6. दुधमा कुन अम्ल पाइन्छ ? Which acid is found in milk?
7. नियोनलाई निष्क्रिय ग्यास पनि भनिन्छ, कारण दिनुहोस् ।
   Neon is also called inert gas, give reason.
8. अल्कालीका कुनै दुई ओटा उदाहरण लेख्नुहोस् ।
   Write any two examples of alkali
9. चित्रमा देखाइएको जीव कुन इरामा विकास भएको हो ?
   (In which era has the given organism evolved?)



समूह – ग (Group - 'C')

छोटो उत्तर आउने प्रश्नहरु (Short answer questions.) $(8 \times 2 = 16)$

10. Artificial Intelligence (AI) र Vertual Reality (VR) बिच कुनै दुई बुँदामा तुलना गर्नुहोस् ।
    Compare Artificial Intelligence (AI) and Vertual Reality (VR) in any two points.

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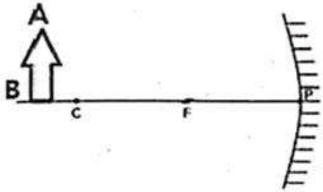
11. ब्याक्टेरियोफेज भाइरसको नामाङ्कित चित्र बनाउनुहोस् ।
    Draw a well-labelled diagram of bacteriophase virus.
12. दिइएका सजिवमा हुने अमैथुनिक प्रजनन् विधिको नाम लेख्नुहोस् ।
    Write down the name of the method of asexual reproduction in the following organism.
    - यिष्ट (Yeast)
    - अमिबा (Amoeba)
    - भूईंकटहर (Pineapple)
    - बेगोनिया (Begonia)

13. एउटा गाडी स्थिर अवस्थावाट चल्न शुरु गरेको 4 सेकेण्ड पछि यसको गति 12m/s पुगेछ भने यसको प्रवेग कति होला ?
What will be the acceleration of vehicle if it started from rest and its velocity reached 12m/s after 4 seconds?

14. दिएको रेखाचित्र पूरा गर्नुहोस् र वन्ने आकृतिको कुनै दुईओटा विशेपता लेख्नुहोस् ।
Complete the given ray diagram and write any two nature of the image formed.)



15. तपाईंलाई आँखा छोपेर कुनै कोठामा राखियो भने उक्त कोठा खाली वा सामानहरु राखिएको छ भनी कसरी पत्ता लगाउनुहुन्छ ?
If you are kept blind folded in a room, how can you find out whether the room is occupied or blank?

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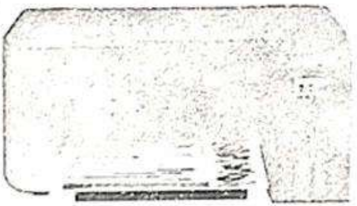
16. अम्ल वर्षाले वातावरणमा पार्ने कुनै दुईवटा असरहरू लेख्नुहोस् ।
Write any two effects of acid rain on the environment.

17. पृथ्वी नजिक एस्टेरोवाड पृथ्वीका लागि खतराजनक हुन्छन्, किन ?
Near- earth asteroid is dangerous for earth, why?

समुह – घ (Group – 'D')

लामो उत्तर आउने प्रश्नहरु (Long answer questions.) (4 × 4 = 16)

18. दिएको चित्र अध्ययन गर्नुहोस् र निम्न प्रश्नहरुको उत्तर लेख्नुहोस् ।
(Study the given figure and answer the the following questions.)

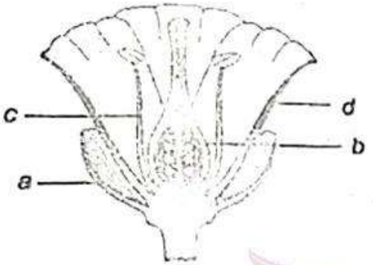


a. दिएको चित्र पहिचान गर्नुहोस् ।
(Identify the given figure.)

b. यो उपकरणले कार्य गर्नका लागि के को आवश्यकता पर्छ ?
(What is needed to function this device ?)

c. यो उपकरण प्रयोग गर्ने तरिका उल्लेख गर्नुहोस् ।
(Mention the methods of using this device ?)

19. दिइएको फूलको चित्र अध्ययन गरी तलका प्रश्नको उत्तर दिनुहोस् ।
(Study the given diagram of a flower and answer the following questions.)



i) a, b, c र d को नाम लेख्नुहोस् ।
Label a, b, c and d parts of flower.

ii) यदी भाग b लाई हटाइएमा गर्भाधान क्रियामा कस्तो असर पर्छ ?
What effect may occur in the fertilization process if part b is removed?

iii) d को कुनै एक कार्य लेख्नुहोस् ।
Write a function of d.

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20. कुनै एउटा तत्वको पारमाणविक भार 23amu रहेको छ ।
An element has its atomic weight 23amu.

a) उक्त परमाणुको पारमाणविक संरचना बनाउनुहोस् ।
Draw its atomic model.

b) यस परमाणुको संयोजता कति हुन्छ ?
What is the valency of this element ?

c) यस परमाणुको क्लोरिनसंगको सन्तुलित रासायनिक प्रतिक्रिया लेख्नुहोस् ।
Write a balanced chemical reaction between the above given element and chlorine.

21. MCB को पूरा रुप लेखी यसको कुनै एक उपयोगिता लेख्नुहोस् । हरिको घरमा प्रत्येक 60 W क्षमताका चारवटा चिमहरु दैनिक 3.5 घण्टाका दरले बालिदो रहेछ भने प्रति युनिट रु 8.5 का दरले 1 महिनामा कति महसुल बुझाउनुपर्ला ?
Write the full form of MCB and mention its any one application. In Hari's house four bulbs of capacity 60W is are used for 3.5 hours per day. If per unit rate is Rs. 8.5, how much electric bill should be paid after a month?

समाप्त

ललितपुर महानगरपालिका

वार्षिक परीक्षा–२०८१

कक्षा : ८ | पूर्णाङ्क : ५०

विषय : सामाजिक अध्ययन तथा मानव मूल्य शिक्षा | समय : २ घण्टा

विद्यार्थीले उत्तर दिँदा सिर्जनात्मकता मौलिकताको आधारमा दिनुपर्नेछ ।

समूह - 'क' (Group - 'A')

तलका प्रश्नहरूको अति छोटो उत्तर दिनुहोस् ।

(Give very short answers to following questions.) ९ × १ = ९

१. विकासको पूर्वाधार भनेको के हो ? एक वाक्यमा लेख्नुहोस् ।
What do you mean by infrastructures of development? Write in a sentence.

२. स्काउटका संस्थापक को हुन् ?
Who is the founder of Scout?

३. न्यायिक व्यवहारका लागि तपाईंले अपनाउँदै आउनुभएको कुनै एउटा बानी उल्लेख गर्नुहोस् ।
Mention one habit that you have been adopting for judicious behavior.

४. समावेशीकरण नीतिको कुनै एक उद्देश्य लेख्नुहोस् ।
Write an objective of the policy of inclusiveness.

५. बौद्धिक पलायन रोक्नको लागि कुनै दुई सुझाव प्रस्तुत गर्नहोस् ।
Give any two suggestions to stop brain drain.

६. भ्रष्टाचार नियन्त्रणका सम्बन्धमा तपाईंले खेल्न सक्ने कुनै एक भूमिका उल्लेख गर्नुहोस् ।
Mention any one role you can play to control corruption.

७. मौद्रिक कारोबारले मानव जीवनमा पारेको एक प्रभाव उल्लेख गर्नुहोस् ।
State one effect of monetary transactions on human life.

८. नेपालमा पर्यटकलाई आकर्षण गर्नका लागि एक आकर्षक नारा तयार गर्नुहोस् ।
Prepare an attractive slogan to attract tourist in Nepal.

९. साइबर अपराधबाट बच्न तपाईंको भूमिका एक वाक्यमा लेख्नुहोस् ।
Mention any one role by which you can apply for saving from cyber crime.

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समूह - 'ख' (Group - 'B')

तलका प्रश्नहरूको छोटो उत्तर दिनुहोस् ।

(Give short answers to the following questions.) ७ × ३ = २१

१०. तपाई बसोबास गर्ने प्रदेशको वर्णन गर्दै विदेशमा रहेको एक साथीलाई पत्र लेख्नुहोस् ।
Write a letter to a friend aboard describing the province you live.

११. सामाजिक परम्परा र संस्कारको संरक्षण गर्न तपाई के के गर्नुहुन्छ ? कुनै तीनओटा क्रियाकलापहरू उल्लेख गर्नुहोस् ।
What do you to protect social traditions and customs? Mention any three activities.

BLE Class 8 Social Studies and Human Values Education 2081 Exam Question Paper -

१२. लागु पदार्थ दुर्व्यसन भनेको के हो ? यसबाट व्यक्ति र समाजमा पर्ने एक एकओटा असरहरू लेख्नुहोस् ।
What is drug addiction? Write down the effects of this on individuals and society.

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१३. पुर्नजागरणकालमा भएका कुनै तीन भौगोलिक खोज र कुनै तीन वैज्ञानिक खोजको सुचि तयार पार्नुहोस् ।
Make a list of any three geographical and any three scientific discoveries during renaissance.

१४. पृथ्वीको परिभ्रमण र परिक्रमणका तीन तीनओटा प्रभावहरू उल्लेख गर्नुहोस् ।
Mention three effects of earth's rotation and revolution.

१५. तराईक्षेत्रमा जनघनत्व बढ्दै गईरहेको छ भने हिमाली क्षेत्रमा घट्दै गईरहेको छ, किन होला ? आफ्ना तर्कहरू तीन बुँदामा प्रस्तुत गर्नुहोस् ।
Why is the population density increasing in the Terai and decreasing in the Himalayan regions? Present your arguments in three points.

१६. 'साइबर अपराध वर्तमान समाजको मुख्य चुनौती' शिर्षकमा एउटा प्रवचन कार्यक्रममा बोल्नको लागि एउटा छोटो वक्तृता तयार पार्नुहोस् ।
Prepare a short speech to be presented in a speech program on the topic 'Cybercrime is the main challenge of present day society'.

समूह - 'ग' (G roup - 'C')

तलका प्रश्नहरूको लामो उत्तर दिनुहोस् ।

(Give long answers to the following questions.) (४ × ५ = २०)

१७. सुशासन र सेवा प्रवाहमा राष्ट्रसेवक कर्मचारीको भूमिका महत्वपूर्ण हुन्छ । पुष्टि गर्नुहोस् ।
The role of civil servent is important in good governance and servicing. Justify.

१८. सिन्धु उपत्यकाको सभ्यताको सामाजिक र आर्थिक जनजीवनबारे चर्चा गर्नुहोस् ।
Discuss the social and economic lifestyle of Indus-Valley Civilization.

१९. बैंकको परिभाषा दिँदै बैंकमा रकम जम्मा गर्दा हुने कुनै चार फाइदाहरू उल्लेख गर्नुहोस् ।
Define bank and write any four advantages of depositing money in bank.

२०. पृष्ठ भरिने गरी नेपालको नक्सा बनाई निम्न तथ्यहरू उपयुक्त सङ्केत प्रयोग गरी भर्नुहोस् ।
Draw a full page outline map of Nepal and insert following facts using proper symbols.

१. बागमती नदी (Bagmati River)
२. जानकी मन्दिर (Janaki Temple)

समाप्त

Basic Level Examination-2079
आधारभूत तह परीक्षा-२०७९
Kathmandu Metropolitan City

विषय : अनिवार्य गणित

(Subject: Compulsory Mathematics)

Time : 3 hrs. **Full marks: 100**

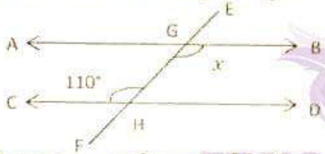
Class : 8th

सबै प्रश्नहरू अनिवार्य छन्

Attempt all the questions.

समूह 'क' (Group 'A' ($10\times1=10$)

1. a) दिइएको चित्रमा x को मान पत्ता लगाउनुहोस् ।
Find the value of x in the given figure.



b) अर्धव्यास 7 cm भएको वृत्तको परिधि निकाल्नुहोस् ।
Find the circumference of circle having radius 7cm.

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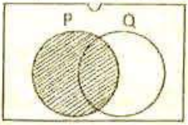
2. a) बिन्दुहरू p(m,n) र Q (s,t) बिचको दूरी पत्ता लगाउनुहोस् ।
Find the distance between the points p(m,n) & Q (s,t).

b) 060° दिशास्थिति देखाउने गरी रेखाङ्कन गर्नुहोस् ।
Sketch to show the bearing of 060°.

3. a) दिइएको चित्रमा छाँया पारिएको भागलाई समूह सङ्केतमा लेख्नुहोस् ।
Write the set notation to represent the shaded region in the given venn-diagram.



Kathmandu Metropolitan BLE Class 8 Compulsory Mathematics 2079 Exam Question Pa

b) दिइएको तथ्याङ्कको रीत मान कुन हो ? Which is the mode of the data given below 70, 80, 60, 50, 60, 75, 60.

4. a) 0.000000792 लाई वैज्ञानिक सङ्केतमा लेख्नुहोस् ।
Write 0.000000792 in scientific notation.

b. $4x^2 - 25y^2$ लाई खण्डीकरण गर्नुहोस् ।
Factorize $4x^2 - 25y^2$

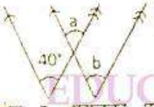
5. a) $(x + y)$ को मान पत्ता लगाउनुहोस् ।
Find the value of $(x + y)$

b) हल गर्नुहोस् ।
Solve $(9x - 17 = 10)$

समूह 'ख' (Group 'B')

(17x2=34)

6. a) दिइएको चित्रबाट a र b को मान पत्ता लगाउनुहोस् ।
Find the values of a and b from the given figure



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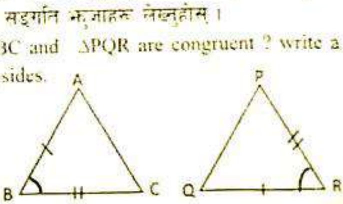
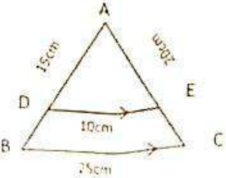
b) समानान्तर चतुर्भुज र आयतको एक आपसमा नमिल्ने दुईओटा गुणहरू लेख्नुहोस् ।
Write down the two distinct properties between parallelogram and rectangle.

c) दिइएको चित्रमा ΔABC र ΔPQR कुन तथ्य अनुसार अनुरूप हुन्छन् ? कुनै एक जोडा सङ्गति भुजाहरू लेख्नुहोस् ।
By which axiom ΔABC and ΔPQR are congruent ? write a pair of corresponding sides.



7. a) सँगैको चित्रमा $\Delta ABC \sim \Delta ADE$, AD=15cm, DE=10cm, BC=25cm र AC=20 cm भए AB को नाप पत्ता लगाउनुहोस् ।

In the adjoining figure, $\Delta ABC \sim \Delta ADE$, AD=15cm, DE=10cm, BC=25cm and AC=20cm, find the length of AB.



b) व्यास 28 cm भएको वृत्तको क्षेत्रफल पत्ता लगाउनुहोस् ।

Calculate the area of a circle with diameter 28 cm.

c) एउटा षड्मुखको जाली बनाउनुहोस् ।

Draw the net of a cuboid.

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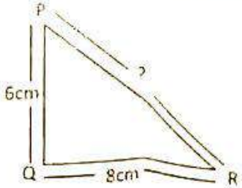
8. a) यदि बिन्दुहरू (0,6) र (a,0) बीचको दूरी 6 एकाइ भए 'a' को मान पत्ता लगाउनुहोस् ।

If the distance between the points (0,6) and (a,0) is 6 units, Find the value of 'a'.

b) दिइएको चित्रबाट थाहा नभएको भुजाको नाप निकाल्नुहोस् ।

From the given figure, find the length of unknown side.



c) यदि U={1,2,3,4,5,6}, A={1,2,3} र B={2,3,6} भए $\overline{A \cup B}$ पत्ता लगाउनुहोस् ।

If U={1,2,3,4,5,6}, A={1,2,3} and B={2,3,6} find $\overline{A \cup B}$.

9. a) हरलाई आनुपातीकरण गर्नुहोस् ।

Rationalize the denominator :- $\frac{3}{\sqrt{24}}$

b) सुशान्त र एन्जलले रु 600 लाई 5:7 को अनुपातमा बाँड्दा दुवैले कति कति रुपियाँ पाउँछन् पत्ता लगाउनुहोस् ।

When Rs. 600 is divided between sushant and Angel in the ratio of 5:7 Find how much money will Sushant and Angel get?

c) दिइएको तथ्याङ्कबाट मध्यिका पत्ता लगाउनुहोस् ।

Find the median of the given data 27, 29, 18, 25, 32, 21, 26

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10. a) खण्डीकरण गर्नुहोस् (Factorize) :- $x^2 - xy + 2x - 2y$

b) सरल गर्नुहोस् (Simplify) :- $(x^a)^{b-c} \times (x^b)^{c-a} \times (x^c)^{a-b}$

c) यदि $m = 4, n = 1, x = 3, y = 2$ भए $\frac{x^{m-n} \cdot x^{m+n}}{x^{m+n} \cdot y^{m-n}}$ को मान कति हुन्छ ?

if $m = 4, n = 1, x = 3, y = 2$ then what is the value of $\frac{x^{m-n} \cdot x^{m+n}}{x^{m+n} \cdot y^{m-n}}$

11. a) असमानता $3x+5>2$ लाई हल गरी सङ्ख्या रेखामा प्रस्तुत गर्नुहोस् ।

Solve and Represent Inequality $3x+5>2$ in number line.

b) हल गर्नुहोस् (Solve):- $\frac{3x+4}{4x+5} = \frac{1}{2}$

समूह 'ग' (Group 'C')

14x4=56

12. आयतका विकर्णहरू बराबर हुन्छन् भनी प्रयोगद्वारा सिद्ध गर्नुहोस् । (फरक नापका २ वटा आयतका चित्रहरू अनिवार्य छन् ।)

Experimentally verify that the diagonals of rectangle are equal. (Two figures of rectangle with different measurements are needed.)

13. कम्पासको प्रयोग गरी एउटा भुजा 6cm भएको नियमित षड्भुजको रचना गर्नुहोस् ।

Construct a regular hexagon with a side 6cm by using compass.

14. 12m लम्बाइ, 0.5m चौडाइ र 3m उचाइ भएको पर्खाल बनाउन $0.3m \times 0.2m \times 0.2m$ का कतिवटा ब्लकहरू आवश्यक पर्छ, पत्ता लगाउनुहोस् ।

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How many blocks each of $0.3m \times 0.2m \times 0.2m$ will be required to construct a wall of 12m length 0.5m breadth and 3m height?

15. P (4,-3), Q(7,3) र R(4,2) एउटा त्रिभुज PQR का शीर्षविन्दुहरू हुन् । उक्त त्रिभुजलाई लेखाचित्रमा अङ्कन गरी x - अक्षमा परावर्तन गर्नुहोस् ।

P (4,-3), Q(7,3) and R(4,2) are the vertices of a triangle PQR. Draw ΔPQR in a graph paper and reflect in about x -axis.

16. एउटा विद्यालयमा 120 जना विद्यार्थीहरू बिच गरिएको सर्वेक्षणमा 80 जनाले स्याउ मन पराए । 40 जनाले केरा मन पराए । यदि 20 जनाले दुवै फलफूल मन पराए भने भेनचित्र बनाई दुवै मन नपराउने विद्यार्थीहरू पत्ता लगाउनुहोस् ।

In a group of 120 students, it was found that 80 students liked apple and 40 liked banana. If 20 of them liked both fruits then by using venn-diagram. Find the number of students who did not like both fruits.

17. सरल गर्नुहोस् । (Simplify) :- $\frac{7}{\sqrt{75}} + \sqrt{300} - 3\sqrt{48}$

18. एउटा सामानको अङ्कित मूल्य रु. 15000 रहेछ । त्यसमा 10% छुट दिई 13% मूल्य अभिवृद्धि कर (VAT) लगाई बेच्दा कतिमा बेच्नुपर्ला ?

The marked price of an article is Rs. 15000, if 10% discount is allowed and 13% VAT added then what will be the selling price of an article.

19. 20 जना कामदारलाई कुनै काम गर्न 24 दिन लाग्छ भने 15 जना कामदारलाई सो काम सक्न कति दिन लाग्ला ?

If 20 persons are required to complete a work in 24 days, in how many days can 15 persons finish the work?

20. रु 10,000 को 5 वर्षमा 10% को दरले प्राप्त हुने ब्याज र मिश्रधन पत्ता लगाउनुहोस् ।

Find simple interest and amount on Rs. 10,000 for 5 years at the rate of 10% per year

21. तल दिइएको तथ्याङ्कबाट अङ्क गणितीय मध्यक पत्ता लगाउनुहोस् ।

Find the arithmetic mean of the following data

X	50	55	60	65	70	75
f	4	8	7	6	9	6

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22. यदि $x + \frac{1}{x} = 6$ भए $x^3 + \frac{1}{x^3}$ को मान पत्ता लगाउनुहोस् ।

If $x + \frac{1}{x} = 6$, find the value of $x^3 + \frac{1}{x^3}$

23. ल.स. निकाल्नुहोस् (Find L.C.M) of

$x^2 + 4x + 4, x^2 + 5x + 6$ *and* $x^2 - 4$

24. सरल गर्नुहोस् । (Simplify) $\frac{1}{a+2} - \frac{1}{a-2} + \frac{2}{a^2-4}$

25. रेखा चित्रबाट हल गर्नुहोस् । (Solve graphically)

$x + y = 5$ *and* $2x - y = 1$

Best of Luck

Kathmandu Metropolitan City

BASIC LEVEL EXAMINATION - 2081

Class: 8	Full Marks: 50
Sub: Compulsory Mathematics	Time: 2 hr.

सबै प्रश्नहरू अनिवार्य छन् । (All questions are compulsory.)

1. समूह A = {2, 5} र समूह B = {5, 7} दिइएको छ । (Set A = {2, 5} and set B = {5, 7} are given.)
   (a) समूह A र समूह B अलग्गिएका वा खप्टिएका कस्ता समूह हुन् ? लेख्नुहोस् । (Are sets A and B overlapping or disjoint? Write it.) [1]
   (b) समूह B बाट बन्ने कुनै दुई ओटा उपयुक्त उपसमूह लेख्नुहोस् । (Write any two proper subsets that can be made from set B.) [2]
2. इ.स. 2020 डिसेम्बर 8 का दिन घोषणा गरिएअनुसार विश्वको सर्वोच्च शिखर सगरमाथाको उचाइ 8848.86 मिटर थियो । (As announced on December 8, 2020, the height of Mount Everest, the highest peak in the world, was 8848.86 meter.)
   (a) सङ्ख्या 8848.86 आनुपातिक वा अनानुपातिक कस्तो सङ्ख्या हो, लेख्नुहोस् । (Write whether the number 8848.86 is a rational or irrational number.) [1]
   (b) सगरमाथाको उचाइलाई सेन्टिमिटरमा रूपान्तरण गरी वैज्ञानिक सङ्केतमा लेख्नुहोस् । (Convert the height of Mt. Everest in centimeter and write in scientific notation.) [2]
   (c) प्रमाणित गर्नुहोस् । (Prove that): $8848 = 240343_5$ [2]
3. दुई जना साथी रामनरेश र महेशले 3: 2 को अनुपातमा रु 50,00,000 एउटा उद्योगमा लगानी गरेछन् । (Two friends, Ramnaresh and Mahesh invested Rs.50,00,000 in a factory in the ratio of 3: 2.)
   (a) प्रत्यक्ष र अप्रत्यक्ष विचरणमा के फरक छ ? एउटा फरक लेख्नुहोस् । (What is the difference in direct and indirect variation? Write one difference.) [1]
   (b) रामनरेशले उद्योगमा कति रकम लगानी गरेका रहेछन् ? पत्ता लगाउनुहोस् । (How much amount has Ramnaresh invested in the factory? Find it.) [1]
   (c) महेशले उद्योगमा लगानी गरेको रकमलाई वार्षिक 10% ब्याजदरमा कुनै एउटा बैंकमा जम्मा गरेको भए 2 वर्षपछि कति साधारण ब्याज पाउन सक्थ्यो ? गणना गर्नुहोस् । (If Mahesh had deposited the amount invested in the industry in a bank at an annual interest rate of 10%, how much simple interest would he have received after 2 years? Calculate.) [2]
   (d) यदि 3: 2 = x: 500 भए x को मान पत्ता लगाउनुहोस् । (If 3: 2 = x: 500, find the value of x.) [1]

Kathmandu Metropolitan KMC BLE-Class 8 Compulsory Mathematics 2081 Exam Question

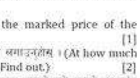
4. आसिमले एउटा मेसिन रु 25,000 मा किनेछन र त्यसको मूल्यमा 20% बढाइ अंकित मूल्य कायम गरेछन । उनले उक्त मेसिनमा केही रकम छुटसहित बेच्दा रु 1,000 नोक्सान भएछ । (Ashim bought a machine for Rs.25,000 and fixed the market price by increasing 20% on its price. He made a loss of Rs.1,000 after selling the machine with some discount amount.)

(a) मेसिनको अंकित मूल्य पत्ता लगाउनुहोस । (Find the marked price of the machine.) [1]

(b) उक्त मेसिन कति प्रतिशत छुटमा बेचिएको रहेछ ? पत्ता लगाउनुहोस् । (At how much discount percentage was the machine sold? Find out.) [2]

(c) यदि आसिमले उक्त मेसिन बेच्दा रु 2,000 नाफा कमाउन चाहेमा भने छुटको दर कति कायम गर्नुपर्छ ? (If Ashim wants to earn a profit of Rs.2,000 by selling the machine, what discount rate should be maintained?) [1]

5. दिइएको चित्रमा, ABCD एउटा समानान्तर चतुर्भुज हो । जहाँ, 13 से मि व्यास भएको अर्धवृत्तमा उचाइ AD = 5 से मि भएको समकोणी त्रिभुज ADB बनेको छ । (In the figure, ABCD is a parallelogram where a right angled triangle ADB with height AD = 5 cm is formed on the semicircle having diameter 13 cm.)



(a) समानान्तर चतुर्भुजको क्षेत्रफल पत्ता लगाउने सूत्र लेख्नुहोस । (Write the formula to find the area of parallelogram.) [1]

(b) उक्त अर्धवृत्तको क्षेत्रफल पत्ता लगाउनुहोस । (Find the area of the semicircle.) [1]

(c) अर्धवृत्तको क्षेत्रफल भन्दा समकोणी त्रिभुज ADB को क्षेत्रफल कतिले कम छ ? गणना गर्नुहोस । (By how much is area of right angled triangle ADB less than the area of semi-circle? Calculate it.) [2]

(d) के समानान्तर चतुर्भुज ABCD को क्षेत्रफल त्रिभुज ADB को क्षेत्रफलको दोब्बर हुन्छ ? तर्कपूर्ण जवाफ दिनुहोस । (Is the area of parallelogram ABCD double the area of triangle ADB? logical answer.) [1]

6. (a) $(a - b)^2$ को विस्तारित रूप लेख्नुहोस । (Write the expanded form of $(a - b)^2$.) [1]

(b) सरल गर्नुहोस । (Simplify): $x^{p(a-b)} \times x^{p(b-c)} \times x^{p(c-a)}$ [2]

7. एउटा आयताकार बगैंचाको लम्बाइ चौडाइभन्दा 4 मिटरले बढी छ । उक्त बगैंचाको जम्मा क्षेत्रफल 96 वर्गमिटर छ । (A rectangular garden has length 4 meter more than its breadth. The area of the garden is 96 square meter.)

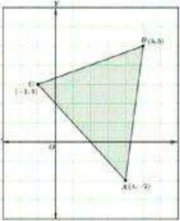
(a) उक्त बगैंचाको चौडाइ x मिटर भए लम्बाइ कति हुन्छ ? x को रूपमा लेख्नुहोस । (If the breadth of the garden is x meters, what is the length? Write in terms of x.) [1]

(b) उक्त बगैंचाको लम्बाइ र चौडाइ कति हुन्छ ? वर्ग समीकरण बनाई पत्ता लगाउनुहोस् । (What are the length and breadth of the garden? Find by making quadratic equation.) [2]

8. (a) खण्डीकरण गर्नुहोस् । (Factorize) : $2x^2 + xy - 2x - y$ [2]

(b) सरल गर्नुहोस् । (Simplify) $\frac{1}{x-3} - \frac{x-3}{x^2-9}$ [2]

9. दिइएको ग्राफमा त्रिभुज ABC देखाइएको छ । (In the given graph, triangle ABC is shown.)



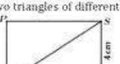
(a) दुई बिन्दुहरूको दुरी पत्ता लगाउन कुन सूत्र प्रयोग गर्नुहुन्छ ? लेख्नुहोस् । (Which formula do you use to find the distance between two points? Write it.) [1]

(b) भुजा BC को लम्बाइ पत्ता लगाउनुहोस् । (Find the length of side BC.) [2]

(c) त्रिभुज ABC लाई धनात्मक दिशामा एक चौथाइ परिक्रमण गर्नुहोस् र प्रतिबिम्बित त्रिभुजका शीर्षबिन्दुको निर्देशाङ्क लेख्नुहोस् । (Rotate the triangle ABC a quarter turn in the positive direction and write the coordinates of the vertices of image triangle.) [2]

(d) त्रिभुजका भित्री कोणको योगफल 180° हुन्छ भनी प्रयोगात्मक रूपमा प्रमाणित गर्नुहोस् । (फरक फरक नापका दुई त्रिभुज आवश्यक छन् ।) (Experimentally verify that the sum of interior angles of a triangle is 180°. (Two triangles of different measurements are required.)) [3]

10. चित्रमा, PQRS एउटा आयत हो, जसमा लम्बाइ QR = 6 से.मि. र चौडाइ RS = 4 से.मि. छ । (In the figure PQRS is a rectangle in which length QR = 6 cm and breadth RS = 4 cm.)



(a) कम्पासको प्रयोग गरी दिइएको नापको आधारमा आयत PQRS को रचना गर्नुहोस् । (Construct the rectangle PQRS using compass according to the given dimensions.) [3]

(b) के ΔQPS र ΔQRS एक आपसमा अनुरूप छन् ? कारण सहित लेख्नुहोस् । (Are ΔQPS and ΔQRS congruent to each other? Write with reason.) [1]

11. 1 से.मी. = 5 कि.मी. को नक्साङ्कनमा बिन्दु P बाट 8 से.मी. पर रहेको बिन्दु Q को दिशास्थिति 110° छ । (A point Q, which is 8 cm away from a point P has a bearing of 110° in the scale 1 cm = 5 km.)

(a) माथिको सन्दर्भअनुसारको दिशास्थिति रेखाङ्कन गर्नुहोस् । (Draw the bearing according to the above context.) [1]

(b) बिन्दु Q बाट बिन्दु P को दिशास्थिति र बिन्दु P बाट बिन्दु Q को दिशास्थिति बिच तुलना गर्नुहोस् । (Compare the bearing of P from point Q and bearing of Q from P.) [2]

12. कक्षा आठका 7 जना विद्यार्थीले प्रथम त्रैमासिक परीक्षामा गणित विषयमा प्राप्त गरेका अङ्कहरू दिइएका छन् । (The following are the marks obtained by 7 students of grade eight in first terminal examination in mathematics):

23, 30, 25, 26, 23, 28, 27

(a) माथिको तथ्याङ्कबाट रीत पत्ता लगाउनुहोस् । (Find the mode from the above data.) [1]

(b) 7 जना विद्यार्थीले प्रथम त्रैमासिक परीक्षामा पाएको औसत प्राप्ताङ्क कति हुन्छ ? पत्ता लगाउनुहोस् । (What is the average marks obtained by the 7 students in first terminal examination? Find it.) [1]

(c) मध्यक, माध्यिका र रीतमध्ये कुनले दिइएको तथ्याङ्कलाई बराबर दुई भागमा विभाजन गर्छ ? कारणसहित लेख्नुहोस् । (Which among mean, median and mode divides the given data in two equal parts? Write with reason.) [1]

***

LALITPUR METROPOLITAN CITY

Final Examination- 2081

Class : 8 **Full Marks : 50**

Sub : Compulsory Mathematics **Time: 2 hrs**

Candidates are required to give their own words as far as practicable.

सबै प्रश्नहरू अनिवार्य छन् । (All questions are compulsory.)

1. यदि समूह A = {15 सम्मका जोर संख्याहरू} र समूह B = {15 सम्मका रुढ संख्याहरू} भए,
   If set A = {Even numbers up to 15} and set B = {Prime numbers up to 15} then,
   a. खप्टिएका समूहहरूलाई परिभाषित गर्नुहोस् ।
   Define overlapping sets. [1]
   b. समूह B बाट कुनै दुईवटा उपयुक्त उपसमूहहरूको निर्माण गर्नुहोस् ।
   Make any two proper subsets from set B. [1]
   c. समूह B का परिणामहरूमा के परिवर्तन गरियो भने दुई समूहहरू A र B अलग्गिएका समूह हुन्छन् ?
   What change in the outcome of set B makes the two sets A and B disjoint. [1]

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2. ललितपुरको एउटा विद्यालयको कक्षा आठमा भएको छात्र र छात्राको अनुपात क्रमश: 5 : 7 छ । यदि जम्मा विद्यार्थी संख्या 60 जना भए,
   The ratio of boys and girls of class eight of a school is 5:7 respectively. If the total number of students is 60 then,
   a. कति जना छात्राहरू रहेछन् ? पत्ता लगाउनुहोस् ।
   How many girls are there? Find. [1]
   b. जम्मा विद्यार्थी संख्यालाई दुईआधार संख्या पद्दतीमा परिवर्तन गर्नुहोस् ।
   Change the total number of students in binary number system.[1]
   c. 350000 लाई वैज्ञानिक संकेतमा लेख्नुहोस् ।
   Write 350000 in scientific notation. [1]
   d. $1.\overline{24}$ लाई भिन्नमा परिवर्तन गर्नुहोस् ।
   Convert $1.\overline{24}$ into fraction. [2]

3. राजु लामा 5 वटा प्रिन्टर र एउटा ल्यापटप किन्न पसलमा जानुभयो । त्यहाँ उनले 5 वटा पिन्टर र एउटा ल्यापटको जम्मा मूल्य रु. 465000 तोकिएको रहेछ भने,
   Raju Lama Visited a computer store to get 5 printers and a laptop. A set of 5 printers and a laptop is available for Rs. 465000 then,
   a. यदि उक्त सामानमा 15% छुट दिइएको भए छुट रकम पत्ता लगाउनुहोस् ।
   If 15% discount is allowed to those machineries, find the discount amount. [2]

Lalitpur Metropolitan BLE-Class 8 Compulsory Mathematics 2081 Exam Question Pape

b. यदि 15% छुटमा बेच्दा पनि पसलेलाई 20% नाफा भएछ भने पसलेले उक्त सामानहरू कतिमा किनेको रहेछ ?

If the shopkeeper earned 20% profit even after allowing 15% discount, at what price did the shopkeeper purchase such machineries. [2]

c. यदि एउटा प्रिन्टरको मूल्य रु.75000 भए एउटा ल्यापटपको मूल्य रु. 95000 भन्दा कति बढी वा कम होला ?

By how much is the marked price of a laptop less or more than Rs. 95000 If the price of a printer is Rs. 75000? [1]

4. डिल्लीरामले वार्षिक 12% व्याजका दरले रु.120000 एउटा बैंकमा जम्मा गर्छन् भने, Dilliram deposites RS. 120000 in a bank at the rate of 12% per annum then,

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a. साधारण व्याज निकाल्ने सुत्र लेख्नुहोस् ।

Write a formula to calculate simple interest. [1]

b. डिल्लीरामले 6 वर्षको अन्तमा कति रकम व्याज पाउछ ? पत्ता लगाउनुहोस् ।

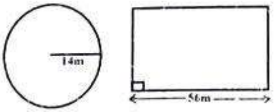
How much interest does Dilliram get after 6 year? [1]

c. यदि प्राप्त हुने व्याजको 5% आयकर तिर्नुपर्छ भने 6 वर्षपछि उनलाई जम्मा कति रकम प्राप्त होला ?

If he has to pay 5% of interest as income tax hqw much amount will he receive after 6 years. [2]

5. मोहनले आफ्नो घरको आगनमा बराबर क्षेत्रफल भएका एउटा आयाताकार बगैचा र एउटा वृताकार माछा पाखरीको निर्माण गरेको छ भने,

Mohan constructed a rectangular garden and a circular fish pond in the garden of his house with equal areas.



a. आधारको लम्बाई 'b' से.मी. र उचाई 'h' से. मी. भएको त्रिभुजको पत्ता लगाउनुहोस् ।

Find the area of triangle having length of base is 'b' cm and height is 'h' cm. [1]

b. वृताकार माछा पोखरीको क्षेत्रफल पत्ता लगाउनुहोस् ।

Find the area of circular fish pond. [1]

c. आयाताकार बगैचाको परिमिती निकाल्नुहोस् ।

Find the perimeter of rectangular garden. [2]

d. बगैचा वा माछा पोखरीलाई एउटै दरले तारवारले घेर्न कसलाई धेरै खर्च लाग्ला ?

Which of the garden or fish pond need more cost to fence at the same rate of cost. [1]

6. a. y को घाताङ कति हुदा सो को मान 1 सँग बराबर हुन्छ ?
What exponent of y will be equal to 1. [1]

b. प्रमाणित गर्नुहोस् (Prove that): [2]
$(x^{a-b})^{a+b} \times (x^{b-c})^{b+c} \times (x^{c-a})^{c+a} = 1$

7. बीजगणितीय भिन्न $\frac{x}{x^2+3x+2} \div \frac{2}{x^2-1}$ दिइएको छ ।

Algebraic fraction $\frac{x}{x^2+3x+2} \div \frac{2}{x^2-1}$ is given,

a. हरहरूको ल.स. निकाल्नुहोस् ।
Find the LCM of denominators. [2]

b. दिइएको भिन्नलाई सरल गरी लघुत्तम पदमा लैजानुहोस् ।
Simplify the given fraction and reduce into the lowest term. [2]

8. दुईवटा संख्याहरू x र y यस्ता छन् कि यिनीहरूको योगफल 8 र अन्तर 4 छ भने,
There are two numbers x and y, such that their sum is 8 and difference is 4.

a. दिइएको भनाईको आधारमा युगपतरेखिय समिकरणहरू निर्माण गर्नुहोस् ।
Construct the simultaneous equations based on the given statements. [1]

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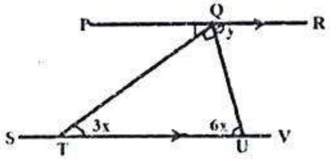
b. ती संख्याहरू कति-कति होलान् ? लेखाचित्र विधिबाट पत्ता लगाउनुहोस् ।
What are the numbers? Calculate by using graphical method.[2]

9. दिइएको चित्रको अध्ययन गरी तलका प्रश्नहरूको उत्तर दिनुहोस् ।
Study the given figure and answer the following questions.

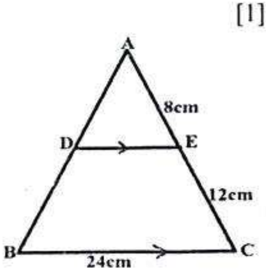


a. x र y को मान पत्ता लगाउनुहोस् ।
Find the value of x and y. [2]

b. कोणहरू x र y को तुलना गर्नुहोस् ।
Compare the angles x and y. [1]

c. 030° को दिशास्थिति जनाउने कोण खिच्नुहोस् ।
Draw a bearing angle of 030°. [1]

10. दिइएको चित्रको अध्ययन गरी सोधिएका प्रश्नहरूको उत्तर दिनुहोस् ।
Study the given figure and answer the following questions.



a. अनुरुप चित्रहरूलाई परिभाषित गर्नुहोस् ।
Define congruent figures. [1]

b. यदि ΔADE ~ ΔABC भए भुजा DE को लम्बाई पत्ता लगाउनुहोस् ।
If ΔADE ~ ΔABC, Find the length DE. [2]

c. एउटा नियमित पोलिहेड्रनमा शीर्षको संख्या 8 र किनाराको संख्या 12 भए, यूलरको सूत्र प्रयोग गरी सतहको संख्या पत्ता लगाउनुहोस् ।

In a regular polyhedron, the number of vertices is 4 and the number of edge is 6, Calculate the number of faces by using Euler's formula. [2]

11. a. आसन्न भुजाहरू 7cm र 4cm तथा तिनीहरू बीचको कोण 60° भएको एउटा समानान्तर चतुर्भुजको रचना गर्नुहोस् ।

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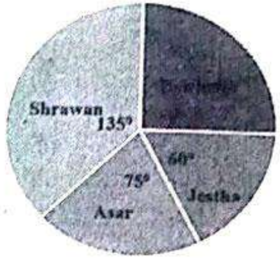
Construct a parallelogram having adjacent sides 7cm and 4cm and angle between them is 60°. [3]

b. ΔABC का शीर्षबिन्दुहरू A(-3, 2), B(5, 3) र C(1, 6) छन् । यसलाई लेखाचित्रमा खिच्नुहोस् र x-अक्षमा परावर्तन गरी प्रतिबिम्बको शीर्षबिन्दुहरूका निर्देशांकहरू पत्ता लगाउनुहोस् ।

The vertices of ΔABC are A(-3, 2), B(5, 3) and C(1, 6). Sketch it on a graph paper and reflect in X-axis. Write down the co-ordinates of the image. [3]

12. एउटा परिवारको चार महिनाको कुल खर्च रु. 36000 छ । प्रत्येक महिनाको खर्चलाई सँगैको वृत्तचित्रमा देखाइएको छ ।

The total expenditure of a family is Rs. 36000 for four months. Expenditure of each month are shown in the adjoining pie-chart.



a. प्रत्येक महिनामा भएको खर्चलाई पत्ता लगाउनुहोस् ।

Find the expenditure in each month. [2]

b. उक्त परिवारको एक महिनामा औसत कति खर्च भएको रहेछ ? पत्ता लगाउनुहोस् ।

How much is average expenditure of such family in one month. Calculate. [1]

The End

LALITPUR METROPOLITAN CITY

FINAL EXAMINATION- 2081

Class : 8 **Full Marks : 50**

Sub: English (Reading and Writing) **Time: 2 hrs**

Candidates are required to give their answer according to the given instructions.

1. **Read the given poem and complete the sentences using correct word from the poem.** **(5 × 1 = 5)**

Long Life

Life is too short to be spent
griping about the past,
things you don't have,
places you haven't seen,
things you haven't done.

Life is too short to be spent
holding grievances against another,
finding fault in your brother,
counting the wrongs done on you.

Life is just long enough
to enjoy the beauty of a sunrise,
the smell of wet earth,
and the sound of laughter,
after a long day's work.

Life is just long enough
to practice compassion and generosity,
to comfort the grieving,
to lend strength to the fainthearted,
and direction to the lost.

- Tricia Mae Chua

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a. Life becomes short if we hold .... against others.

b. Counting the wrongs people have done on you makes the life.....

Lalitpur Metropolitan LMC BLE-Class 8 English 2081 Exam Question Paper

c. We should cherish the simple joys of life-like nature's beauty and moments of ....and ....

d. Life is just long enough to .... the grieving.

e. The poem is an appeal to make our life..............

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2. Read the text below and write whether the given statements are True or False. **(5×1 = 5)**

Have you ever accidentally left your phone at home before leaving? How would you feel if you forgot your mobile phone at home? Some might feel scared, and others might feel completely lost. I think it is not very enjoyable to many of us. In modern day life, smart phones have become a vital part and without them we feel like we are incomplete.

Most of us use smart phones every day to surf the internet and social media, check emails, listen to music, play games, watch videos, take photos, read news and write text messages. Most importantly, we use them for their original purpose, to make phone calls. Now all these activities can be done using a single device. If you think of the time 25 years back, some of them were not even possible. Smart phones have changed the way we live quite drastically.

The way we retrieve information has also been changed. We use smart phones to find information on the web. Today, we can access any kind of information anytime and anywhere. The same is true for communication too. Our smart phone offers us several ways of communication: calling, messaging, sending email, using social media, etc.

The fact that we can get any information anytime we want has an impact on our way of living. Studies have found that we are very likely to forget the information which we know we can easily retrieve again. When someone asks us a question, we tend to think about how we can find the answer on the internet rather than thinking about answering it ourselves.

a. Smart phones are primarily used for making phone calls.

b. Smartphones have made it harder for us to retrieve information from the internet.

c. If you forget your phone at home, the text suggests that it would not affect your day much.

d. The text suggests that smartphones have made our lives more convenient by providing various services in one device.

e. The ability to access any information any time has impacted how we live, according to the text.

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3. Read the text and put the sentences in the correct order. (5×1 = 5)

Cristiano Ronaldo is among the world's best footballers to ever live and a testimony to hard work and determination. Coming from an era of essentially a poor family in the tiny island of Madeira in Portugal, Ronaldo's rise to stardom was far from easy. He was talented from childhood, but he had a struggling family financially. Even at the tender age of 12, he abandoned his home and family in Mozambique Torome in Lisbon, Sporting CP youth academy.

Ronaldo first made his breakthrough at Manchester United, where he developed, and started to express himself as a footballer on a different level. He was accused by some circles of being ostentatious and was easily dismissed whenever he was young.

But there was a great difference: he surpassed everyone, at least on the American front, in work capacity, training and wish to win. Ronaldo played for Real Madrid, wherein he created history and the Victory of multiple titles including the Ballon d'Or several times.

Apart from the playing field, Ronaldo is a charitable person and willing to pay it forward and that makes his story more inspiring. He often makes donations to many organizations and sometimes uses his shows to promote issues such as child- hunger and after-effects disasters.

His relentless pursuit of excellence, combined with his humility and generosity, offers a powerful lesson for students: There is a truism that one is born with talent, but greatness one earns over time.

The world is replete with bright and outstanding individuals to the extent that one can think of nothing that has not been achieved by someone somewhere. All of them have contributed immensely in their various fields and are therefore constantly making imprints on any learner that tries to venture into the same field.

a. Manchester United is the club where Ronaldo made his first breakthrough.
b. Ronaldo was easily dismissed from the team by the accusation of some circle.
c. His pursuit of excellence is a powerful lesson for students.
d. Cristiano Ronaldo was born in a financially struggling family.
e. Ronaldo is charitable person that makes his story inspiring.

4. Read the text and do the tasks that follow.

Most of us know how strenuous exercise can result in aching limbs the following day. But now scientists have discovered that the benefits to the brain can also be felt a day later. University College London (UCL) researchers found that the short-term boost our brains get after we do exercise persists throughout the following day. Those who did more moderate to vigorous physical activity than usual on a given day did better in memory tests the day after. Experts said the improvements could be achieved by something as simple as running up the stairs.

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In the short term, exercise increases blood flow to the brain and stimulates the release of neurotransmitters such as norepinephrine and dopamine which help a range of cognitive functions. These neurochemical changes are understood to last up to a few hours after exercise. However, other studies have shown brain states linked to exercise were more long-lasting, with evidence suggesting exercise can enhance mood for up to 24 hours. Participants, aged 50 to 83, wore activity trackers for eight days and took cognitive tests each day. Scientists analyzed how long they spent being sedentary, doing light physical activity, and doing moderate or vigorous physical activity.

They also quantified sleep duration and time spent in lighter (rapid eye movement, or REM) sleep and deeper, slow-wave sleep. After factoring in average levels of activity and sleep, they found that more moderate or vigorous physical activity compared to a person's average was linked to better working memory and episodic memory (memory of events) the next day. These benefits were also felt by people who spent less time spent sitting and had six hours or more of sleep. More sleep overall was linked to improved episodic and working memory and psychomotor speed, a measure of how quickly a person detects and responds to the environment.

A. **Match the words in column 'A' with their meaning in column 'B'.** **(5×1=5)**

Column 'A'	Column 'B'
a. enhance	i. having great vigour or energy.
b. stimulate	ii. relating to the function of muscles under mind's control.
c. strenuous	iii. a substance that is involved in neural activity.
d. neurochemical	iv. to encourage into action
e. psychomotor	v. any measure of central tendency
	vi. to make something greater.

B. **Answer the following questions.** **(5 × 1 = 5)**

a. What have the scientists discovered about the exercise?
b. How are norepinephrine and dopamine useful to us?
c. Who were analyzed by the scientists?
d. What does REM stand for?
e. Give a suitable title to the text.

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5. **Identify and correct the punctuation errors in the given passage.** **(10×0.5=5)**

Everyone asked, how will the king be able to choose a wife The barber, rahaman replied, "I am afraid I will have great trouble finding a worthy lady for the king" ahmad asked the barber if he could think an idea about finding a suitable lady for the king. After some time the barber shouted, "Oh, my Gosh, I got an idea. Its really wonderful" There was a silence after that

6. **Develop a readable story using the clues given in the box and give a suitable title to it.** **(5)**

> A gentleman has a son... the son lives in a bad company... doesn't care for father's advice...one day, the father buys a box of apples... says to his son," they will all be yours tomorrow... tells him to put a rotten apple in the middle of the apples... next day, the boy complains: all the apples are rotten... father replies... moral

7. **Write a thank you letter to your father/mother who supports you in each steps of your academic journey managing money and reading materials in spite of being unemployed.** **(10)**

Or

Write an essay on: "Importance of science and technology in your daily life."

8. **Change the following sentences as indicated in the brackets.**

(5 × 0.5 = 2.5)

a. She'll complete her project work in time, ...? (Supply a correct tag)

b. I have already met him. (Change into negative sentence)

c. Pranit has eaten an apple. (Change into present continuous tense)

d. My brother requested me to help him. (Change into direct speech)

e. The teachers have solved the problem. (Change into passive voice)

9. **Choose the correct answer from the given option in the brackets:**

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(5 × 0.5 = 2.5)

a. It costs ten rupees................kilo. (a/an/the/nothing)

b. He went..........the room and began to watch movie. (onto/into/in)

c. We played football.............it was raining. (because/although/in spite of)

d. What would you do if you............your pen? (lost/had lost/ lose)

e. A pair of sunglasses......left on the beach yesterday. (have/were/was)

The End

Symbol No: 2082-11-01 **07:00am**

PABSON KATHMANDU METRO
PRE-BASIC EDUCATION EXAMINATION-2082

Subject: English

Class: 8

Full Marks: 50

Time: 2 hrs.

Candidates are required to answer the questions in their own way words as far as practicable. Figures in the margin indicate the full marks.

Attempt all questions.

1. Read the poem and choose the correct alternatives. 5×1=5

Long life

Life is too short to be spent
griping about the past,
things you don't have,
places you haven't seen,
things you haven't done.

Life is too short to be spent
holding grievances against another,
finding fault in you r brother,
counting the wrongs done on you.

Life is just long enough
to enjoy the beauty of a sunrise,
the smell of wet earth,
and the sound of laughter,
after a long day's work.

Life is just long enough
to practice compassion and generosity,
to comfort the grieving,
to lend strength to the fainthearted,
and direction to the lost.

- Tricia Mae Chua

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Class 8 English Kathmandu Metro Pre-Basic Education Examination Question 2082-PA

a) Which of the following actions is mentioned in the poem as a waste of life?

i) Enjoying the beauty of a sunrise

ii) Practicing compassion and generosity

iii) Holding grievances against another

iv) Comforting the grieving

b) Why does the poet say life is too short?

i) Because human life does not last many years

ii) Because people waste time complaining and blaming others

iii) Because life is full of responsibilities

iv) Because hard work makes people tired

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c) According to the poem, what makes life "just long enough"?

i) Gaining wealth and success

ii) Avoiding problems in life

iii) Enjoying simple joys and helping others

iv) Ignoring other people's suffering

d) Which of the following groups includes only positive actions mentioned in the poem?

i) Griping about the past, holding grievances

ii) Counting wrongs, finding fault

iii) Enjoying sunrise, comforting the grieving

iv) Complaining about things not done

e) What overall message does the poem convey?

i) Life should be spent correcting others

ii) Life becomes meaningful through kindness and gratitude

iii) Life is mainly about success

iv) Life is too short to take responsibility

Symbol No: 2082-11-01 **07:00am**

2. Read the text and put the following sentences in their correct order. 5×1=5

A Visit to Mustang

I knew a little about Mustang, Nepal before I visited it in early 2020. I was curious to see a place untouched by tourists, away from the busy life of Hong Kong. Mustang has only been open to tourists since 1992 and non-Nepali tourists need a special travel permit to enter Upper Mustang.

On the first night, I stayed in Pokhara to meet up with my tour group. Pokhara is the starting point for many treks that can be taken in the Himalayas. The staff of the hotel provided me with cushions and blankets to ensure I would not get cold during the night.

The next day, my tour guide Reena, picked me up early and we jumped in a jeep to start the journey. January in Nepal is usually somewhere between 00 to -150 C in the Himalayas.

For that reason, the winter months draw few tourists to Nepal. Even though I was on my own, I was not lonely as we ended up picking up and dropping off several locals on the way.

After a full seven hours travel, we arrived at our first travel spot-Tatopani, meaning a hot spring. The spring itself was a small but charming natural pool. While relaxing in the warm water, my tour guide shared about her life growing up in Nepal. She told me about the rustic daily living conditions.

The natural beauty of the place combined with its loving people was something that could not be replaced anywhere else in the world.

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a) The narrator reached at Tatopani in seven hours with tourist guide.

b) The narrator went in jeep with the guide Reena in second day.

c) On the first night of his journey, the narrator stayed in a hotel in Pokhara.

d) Reena shared her life story with the tourist atTatopani.

e) The narrator came from Hong Kong to visit Mustang Nepal.

3. **Read the following menu and fill in the gaps with appropriate information.** **5×1=5**

Multicuisine Restaurant-Menu Card

Appetizers

1. French Fries **Rs. 110/-**

Deep fried potato strips served with Tomato sauce

2. Corn Fritters **Rs. 130/-**

Sweet corn kernels and spring onion friters

3. Aloo Dhaniya Tikki **Rs. 130/-**

Deep fried potato, cheese and coriander pattice flavored with North Indian spices.

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4. Fish Cube Masala Fry **Rs. 170/-**

Deep fried fish cubes dusted with Kerala spices

5. Spicy Prawn Skewers **Rs. 180/-**

Sweet and spicy prawns skewered with sweet chilly sauce

6. Squid/Prawn Tempura **Rs. 180/-**

Batter fried squid or prawns

7. Butterfly Prawns **Rs. 180/-**

Crumb fried prawns

8. Shrimp Cocktail **Rs. 180/-**

Combination of shrimps, salad and cocktail sauce

(Taxes as applicable. Food prepared fresh. Takes 35-40 minutes to serve)

The Soup Pot

9. Dragon Soup **Rs. 120/-**

Chinese soup with celery and cheese

10. Tomato and Basil Soup **Rs. 120/-**

A thick tomato soup flavoured with basil and celery

Symbol No: 2082-11-01 **07:00am**

a) This menu is entitled as ....

b) The number of total appetizers shown on the menu is ....

c) 'Aloo Dhaniya Tikki' is deep ....

d) The customers have to wait for .... to get served.

e) The most expensive food items presented on the menu are ....

4. Read the text and do the tasks that follow. **10**

EMERGENCY LOCK DOWN

Emergency lock down will be used when there is a critical incident at the school or a situation that threatens the lives or endangers the safety of persons in the school. An emergency lock down will be initiated by the following announcement being repeated twice:

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"Give me your attention. We are in emergency lock down. Please follow emergency procedures at this time."

What to do:

1. Get any and all students into the classroom.
2. Close and lock the door, close and lock the windows and lower the blinds.
3. Move students to the rear of the classroom.
4. Tell students to lie face down on the floor.
5. If the situation allows, build a barricade of desks and chairs between the students and the door.
6. Under no circumstances allow anyone to enter or leave your room unless they are accompanied by a uniformed law enforcement officer, the S.R.O., or you are instructed to do so by a school administrator.
7. Do not use the Cisco phone to contact the office. Let the office contact you.
8. If anyone in your room is injured, hang the notification banner out the window, give first aid, and make them as comfortable as possible. Reassure them that help is on the way.
9. Let help come to you!
10. When time allows, take a roll of everyone in your room and be ready to give this information to the office.
11. Be ready to follow further instructions given by intercom, hand-held public address system or in person.

Tips for teachers

1. Remember to stay calm.
2. Give clear instructions to your students.
3. Keep your roll book with you.
4. It is suggested that you keep your hall door closed and locked at all times. If you leave your door standing open please keep the door locked so all that you have to do is close it and it will be locked.
5. Keep your keys with you at all times.
6. Discuss the safety procedures with your students especially the secure building procedure and the emergency lock down procedure.
7. In the event that the building is evacuated, do not allow students to bring book bags etc., only needed items.
8. If the building is evacuated, secured, or locked down do not allow rumors to circulate. The principal will advise every one of the reason action was taken at the first possible opportunity.

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A. Match descriptions in Column A with the words in column B. One word is additional. **5×1=5**

Column A	Column B
a) official ways of doing something.	i. initiated
b) began/originated	ii. barricade
c) a two-way communication system with a microphone and loudspeaker at each station for localized use.	iii. intercom
d) removed (someone) from a place of danger to a safer place	iv. evacuated
e) an improvised barrier erected across a street	v. procedures
	vi. opportunity

B. Answer the following questions. **5×1=5**

a) Why will Emergency lockdown be used?

b) How many procedures are given for the students to follow during emergency?

c) When are the students allowed to leave the room?

d) Why should the door be locked?

e) Why is the rumor of evacuating the building NOT spread?

Symbol No: ……………………… 2082-11-01 **07:00am**

5. Identify the ten errors in the given paragraph. Rewrite the paragraph by correcting the errors. **10 ×0.5=5**

birds are very special animals that have particular characteristics. all of them have feathers, wings and two legs similarly, all birds lay eggs and are warm-blooded they are very essential for our environment and exist in different breeds. Thus, an essay on birds will take us through their importance. birds have different sizes and can be as small as 2 inches and as big as 2.75 metres.

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6. Write a **news report using the following clues in about 100** words. **5**

Clues:

ABC hospital inaugurated

ABC hospital … among a big mass by the Mayor of Dhangadhi Sub-Metropolis …… … built from the financial support of the Local Government … work started in 2024 … ended in 2026, January …has the capacity of 60 beds … people look happy and hopeful about the future…

7. Students **use social media like Facebook, Tik Tok and** Instagram **unwisely. Write a short essay in about 180 words** on **uses and misuses of social media.** **10**

8. Rewrite **the given sentences as indicated in the brackets.** **5 0×.5=2.5**

a) Nobody is watching the movie, …………? (Add the correct tag.)
b) Wait! They……..(fix) the car. (Write the correct form of the verb given in the bracket.)
c) Hema doesn't like to wear make up. (Change into Affirmative.)
d) She says , " Man is a mortal creature." (Change into Indirect Speech.)
e) Jim is painting the portrait of the Prime Minister. (Change into Passive Voice.)

07:00am

2082-11-01

9. **Choose and copy the correct answer for the numbered blanks below. Rewriting is not required.** **5× 0.5=2.5**

I have.....(a)..... (a/an/the) pet dog. It's pleasure to walk with him at night. That was a dark night. Suddenly there was a very strong glare that made my vision.....(b)..... (blur/ to blur/ blurred). My dog was barking furiously.

After the glare was.....(c)..... (of/up/off), I looked around. There was still some light and a large flying saucer had landed just a little distance away from where I was. So far I had only heard about the unknown flying objects. Fb:Ganesh Bhandari

Today, it was there before my eyes.

With bated breath, I looked on. The dog was barking still more furiously.....(d)..... (and/but) I ordered it to be silent. Some strange creatures came out of it. Their only resemblance with human beings.....(e)..... (were/was/is) that they also stood on two legs. I hid myself behind a tree still keeping a watch on them.

They had some tools with them. Two of them looked carefully into the sky while the others moved about a little. Perhaps they were taking some photographs.

Symbol No: 2082-11-07 **07:00am**

PABSON KATHMANDU METRO
PRE-BASIC EDUCATION EXAMINATION-2082

Subject: Health, Physical & Creative Arts **Full Marks: 50**

Class: 8 **Time: 2 hrs.**

Candidates are required to answer the questions in their own way words as far as practicable. Figures in the margin indicate the full marks.

Attempt all questions.

सबै प्रश्नहरू अनिवार्य छन् ।

समूह 'क'
Group 'A'

अति छोटो प्रश्नहरू

Very Short Questions: **[10×1=10]**

1. Which organ coordinates the speed of the muscles in the body?
   शारीरिक कार्य गर्दा मांसपेशीको गतिको समन्वय कुन अङ्गले गर्छ ?
   a) cerebrum (ठुलो मस्तिष्क) b) cerebellum (सानो मस्तिष्क)
   c) spinal chord (सुषुम्ना) d) medulla oblongata (सुषुम्ना शीर्ष)

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2. How many types of blood vessels are there?
   रक्त वाहिका कति प्रकारका हुन्छन ?
3. Lack of safe drinking water causes diseases such as ....
   सुरक्षित पिउने पानीको अभावमा .... जस्ता रोग लाग्छ ।
4. What types of food items should we have?
   हामीले कस्तो खानेकुरा खानुपर्छ ?
5. Write two preventive measures of AIDS.
   एड्सबाट बच्ने २ उपाय लेख्नुहोस् ।
6. Where should the cloth pad used during menstruation be dried?
   महिनावारीमा प्रयोग भएको कपडा कहाँ सुकाउनुपर्छ ?
7. What is dribbling in football?
   फुटबलमा ड्रिब्लिङ भनेको के हो ?
8. Write the length, breadth, and total number of players in a volleyball court.
   भलिबल कोर्टको लम्बाइ, चौडाइ र खेलाडी सङ्ख्या लेख्नुहोस् ।
9. How can the images produced in a printing factory be conceptualized?
   मुद्रण कारखानामा उत्पादित छविहरूको अवधारणा कसरी बनाउन सकिन्छ ?

Class 8 Health Physical and Creative Arts Kathmandu Metro Pre-Basic Education Ex

10. Give examples of specialty papers used for printing and clay work.
मुद्रण र माटाको कामका लागि विशेष कागजातको उदाहरण दिनुहोस् ।

समूह 'ख'
Group 'B'

तलका प्रश्नहरूका छोटो उत्तर लेख्नुहोस् ।
Write Short Answer Questions: **[10×2=20]**

11. Write a short description of any one gland.
कुनै एक ग्रन्थको छोटो वर्णन गर्नुहोस् ।
12. What facilities should be provided in youth-friendly sexual and reproductive health services? Give two examples.
युवामैत्री यौन तथा प्रजनन स्वास्थ्य सेवामा कुन कुन सुविधा हुनुपर्छ ? दुई उदाहरण दिनुहोस् ।
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13. Justify: "Obesity is the result of unhealthy lifestyle and wrong eating habits."
"मोटोपन अस्वस्थ जीवनशैली र गलत खानेबानेको परिणाम हो ।" यस भनाइलाई पुष्टि गर्नुहोस् ।
14. What is contraception? State one method of contraception.
गर्भ निरोधक भनेको के हो? एउटा गर्भ निरोध विधि लेख्नुहोस् ।
15. What is cool down exercise? Write with example.
जिउ चिस्याउने कसरत भनेको के हो? उदाहरण सहित लेख्नुहोस् ।
16. What is relay race? Write any two rules.
रिले दौड भनेको के हो? दुईवटा नियम लेख्नुहोस् ।
17. Why is yoga also called self-discipline?
योगालाई आत्मानुशासन पनि भनिन्छ, किन ?
18. Write four lyrics of any folk song you like.
मन परेको कुनै लोकगीतका ४ पंक्ति लेख्नुहोस् ।
19. Mention the differences between Khyali, Samhala, and Selo.
ख्याली, सम्हाला र सेलोबीचका भिन्नता लेख्नुहोस् ।
20. Define Samyukta Mudras and describe two mudras with the help of pictures.
संयुक्त मुद्राको परिभाषा दिई दुई मुद्राको चित्र सहित वर्णन गर्नुहोस् ।

Symbol No: 2082-11-07 07:00am

समूह 'ग'
Group 'C'

दिइएका प्रश्नहरूको लामो उत्तर दिनुहोस् ।

Long Answer Questions: **[5×4=20]**

21. Describe any three health problems occurring in your community.
    तपाईंको समुदायमा देखिने कुनै तीन स्वास्थ्य समस्याको संक्षिप्त वर्णन गर्नुहोस् ।
22. Give a short introduction to cancer and list four preventive measures.
    क्यान्सर रोगको छोटो परिचय दिई रोकथामका ४ उपाय लेख्नुहोस् ।
23. Introduce menstrual cycle and state its stages.
    महिनावारी चक्रको परिचय दिँदै यसका चरणहरु उल्लेख गर्नुहोस् ।
24. Explain any four rules of basketball.
    बास्केटबलका कुनै चार सिपहरु वर्णन गर्नुहोस् ।
25. Briefly explain the basic rules of art.
    कलाका आधारभुत नियमहरुलाई छोट्करीमा वर्णन गर्नुहोस् ।

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Symbol No: 2082-11-04 07:00am

PABSON KATHMANDU METRO
PRE-BASIC EDUCATION EXAMINATION-2082

Subject: Mathematics **Full Marks: 50**

Class: 8 **Time: 2 hrs.**

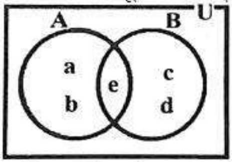
Candidates are required to answer the questions in their own way words as far as practicable. Figures in the margin indicate the full marks.

Attempt all questions.

सबै प्रश्नहरू अनिवार्य छन् ।

1. a) Define overlapping sets. **[1]**
   खप्टिएका समूहहरूलाई परिभाषित गर्नुहोस् ।

   b) From the given Venn-diagram, form any one proper set of set A. Which element should be removed so that A and B become disjoint. Write it. **[2]**
   दिइएको भेनचित्रबाट समूह A को कुनै एक उपयुक्त समूह बनाउनुहोस् । कुन सदस्य हटाउँदा A र B अलग समूह बन्दछन् ? लेख्नुहोस् ।



2. a) Kathmandu Metropolitan City plans to clean Dhobikhola river. If 12 workers can clean 40 meter river in 2 days, how many meter of river can 10 workers clean in 6 days? Find it. **[2]**
   काठमाडौं महानगरपालिकाले धोबिखोला सफाइ गर्ने योजना बनाएछ । 12 जना कामदारले 40 मिटर खोला 2 दिनमा सफा गर्छन् भने 10 जना कामदारले 6 दिनमा कति मिटर खोला सफा गर्छन् ? पत्ता लगाउनुहोस् ।

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Class 8 Mathematics Kathmandu Metro Pre-Basic Education Examination Question 208

b) Rahul and Manish invested in a factory in the ratio of 2:3. Rahul invested Rs. 8,00,000 in the beginning.
राहुल र मनिषले एउटा कारखानामा 2:3 को अनुपातमा लगानी गरेछन् । सुरुमा राहुलले रू. 8,00,000 लगानी गरे ।

i) What was the investment of Manish? Find it. **[2]**
मनिषको लगानी कति थियो ? पत्ता लगाउनुहोस् ।

ii) What will be the new ratio of investments of Rahul to Manish while Rahul added his investment by Rs. 4,00,000.? Calculate it. **[2]**
यदि राहुलले पछि रू.4,00,000 लगानी थपेको भए राहुल र मनिषको नयाँ लगानी अनुपात कति हुन्थ्यो ? गणना गर्नुहोस् ।

3. a) If principle, time, rate and simple interest be P, T, R and I respectively, write the formula to calculate rate of interest. **[1]**
यदि P, T, R र I ले क्रमश: मूलधन, समय, ब्याजदर र साधारण ब्याज जनाउँछन्भने ब्याजदर पत्ता लगाउने सूत्र लेख्नुहोस् ।

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b) A shopkeeper bought 100 tumblers for Rs. 60,000. Among them 10 tumblers were broken.
एउटा पसलेले 100 वटा पानी पिउने बोतल रू. 60,000 मा किनेछन् । जसमध्ये 10 वटा फुटेका रहेछन् ।

i) What should a customer bear while buying price is higher than selling price? **[1]**
बेचेको मूल्यभन्दा किनेको मूल्य बढीभए एउटा ग्राहकले के व्यहोनुपर्छ ?

ii) What should be the selling price of the remaining tumblers to get 20% profit? Find it. **[1]**
20% नाफा गर्न बाँकी बोतल कतिमा बेच्नुपर्छ ? पत्ता लगाउनुहोस् ।

iii) Prakash said to Ramila, "The shopkeeper sold the remaining tumblers at the rate of Rs 800 each to gain 20% on his total outlay". Is he correct? Justify your answer. **[1]**
प्रकाशले रमिलालाई भने, "पसलेले यो दौरानमा 20% नाफा कमाउन प्रति बोतल रू. 800 मा बेच्नु पर्छ ।" के उनी सही छन् ? पुष्टि गर्नुहोस् ।

Symbol No: 2082-11-04 **07:00am**

4. a) Two tourist buses depart from Kathmandu and Pokhara at 7:00 am. While both the buses meet at Mugling, bus departed from Kathmandu covers 1.05×10^5 meters and bus departed from Pokhara covers 9.95×10^4 meters. What is the total distance covered by these buses? Write in scientific notation. **[2]**
काठमाण्डौ र पोखराबाट दुईवटा पर्यटक बसहरू बिहान 7:00 बजे छुट्छन्। दुवै बसहरू मुङलिनमा भेटहुँदा काठमाण्डौबाट छुटेको बसले 1.05×10^5 मिटर र पोखराबाट छुटेको बसले 9.95×10^4 मिटर दुरी पार गर्दछ। दुवै बसले पार गरेको जम्मा दुरी कति हुन्छ ? वैज्ञानिक सङ्केतमा लेख्नुहोस्।

b) Convert a quinary number 324_5 into decimal system. **[1]**
पञ्च आधार सङ्ख्या 324_5 लाई दशमलव सङ्ख्यामा बदल्नुहोस्।

c) Are $\sqrt{64}$ and $2\sqrt{5}$ both irrational numbers? Write with reason. **[1]**

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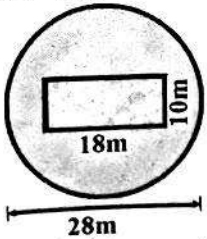
के $\sqrt{64}$ र $2\sqrt{5}$ दुवै अनानुपातिक सङ्ख्या हुन् ? कारण सहित लेख्नुहोस्।

5. A hotel constructed a rectangular swimming pool of size $18m \times 10m$ within a circular garden with its diameter of 28 m.
एउटा होटलले व्यास 28 मिटर भएको गोलाकार बगैँचाभित्र 18 मि. x 10 मि. को एउटा पौडी पोखरी निर्माण गरेछ।



a) Write the formula to calculate area of a rectangle. **[1]**
आयतको क्षेत्रफल पत्ता लगाउने सूत्र लेख्नुहोस्।

b) Find the area of the circular garden including swimming pool. **[1]**
पौडी पोखरीसहित गोलाकार बगैँचाको क्षेत्रफल पत्ता लगाउनुहोस्।

c) Find the area of the garden excluding the swimming pool. **[2]**
पौडी पोखरीबाहेक बगैंचाको क्षेत्रफल पत्ता लगाउनुहोस् ।

d) Does 350 meter of wire suffice to fence the circular garden four times? Calculate it. **[1]**
उक्त गोलाकार बगैंचालाई चार पटक घेर्न 350 मिटर तार पर्याप्त होला ? गणना गर्नुहोस् ।

6. a) What should be the value of z, so that the value of $(x + y)^z$ is 1 ? **[1]**
z को मान कतिहुँदा $(x + y)^z$ को मान 1 हुन्छ ?

b) Simplify (सरल गर्नुहोस् ।): $\left(\frac{a+b}{a-b} - \frac{a-b}{a+b}\right) \times \frac{a^2-b^2}{4ab}$ **[2]**

7. Two equations are given as: $x + y = 6$ and $x - y = 2$.
दुई समीकरणहरू यसरी दिइएको छ ।

a) What are these form of equation called? **[1]**
यिनीहरूलाई कुन रुपका समीकरण भनिन्छ ?

b) Solve the equations by graphical method. **[2]**
यी समीकरणहरूलाई ग्राफ विधिबाट हल गर्नुहोस् ।

8. a) Find LCM of the given expressions: $x^2 - 6x - 16$ and $x^2 - 4$ **[2]**
दिइएका अभिव्यञ्जकहरूको ल.स. पत्ता लगाउनुहोस् ।

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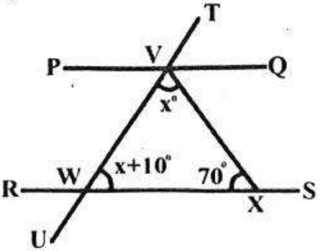
b) What should be the value of x so that the value of $x^2 - 5x + 6$ becomes zero? Find it. **[2]**
x को मान कतिभए $x^2 - 5x + 6$ शुन्य हुन्छ ? पत्ता लगाउनुहोस् ।

9. In the given figure, two lines PQ and RS are intersected at V and W respectively by a transversal line TU.
दिइएको चित्रमा, दुई रेखाहरू PQ र RS क्रमश: विन्दुहरू V र W मा छेदक TU ले काटिएका छन् ।



a) Write any one pair of alternate angles. **[1]**
कुनै एकजोडा एकान्तर कोणहरू लेख्नुहोस् ।

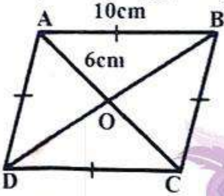
Symbol No: 2082-11-04 **07:00am**

b) If $\angle WVX = x$, $\angle VWX = x + 10^\circ$ and $\angle VXW = 70^\circ$, find the value of x. [2]
यदि $\angle WVX = x$, $\angle VWX = x + 10^\circ$ र $\angle VXW = 70^\circ$ भए x को मान पत्ता लगाउनुहोस् ।

c) At what value of $\angle PVW$, the line PQ and RS become parallel? Write with reason. [1]
$\angle PVW$ को कुन मानमा PQ र RS समानान्तर हुन्छन् ? कारणसहित लेख्नुहोस् ।

10. a) Construct a rectangle PQRS in which QR = 6.4 cm, $\angle SQR = 30^\circ$ and diagonal QS = 8 cm. [3]
QR = 6.4 से.मि., $\angle SQR = 30^\circ$ र व्यास QS = 8 से.मि. भएको एउटा आयतको रचना गर्नुहोस् ।

b) In the given figure, ABCD is a rhombus.
दिइएको चित्रमा, ABCD एउटा समबहुभुज चतुर्भुज हो ।



i) What will be the value of $\angle AOB$ while diagonals AC and BD intersect at O ? [1]
व्यासहरू AC र BD विन्दु O मा काटिँदा $\angle AOB$ को मान कति हुन्छ ?

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ii) If AB = 10 cm and OA = 6 cm, find the length of BD. [2]
यदि AB = 10 से.मि. र OA = 6 से.मि. भए BD को लम्बाइ पत्ता लगाउनुहोस् ।

11. a) Vertices of a ΔDEF are D(2, 5), E(−2, 2) and F(4, 1). Find the co-ordinates of the vertices of image $\Delta D'E'F'$ reflecting on X-axis and sketch out both the triangles on the same graph paper.
एउटा त्रिभुज ΔDEF का शीर्षविन्दुहरू D(2, 5), E(−2, 2) र F(4, 1) छन् । X-अक्षमा परावर्तन गरी प्रतिविम्ब $\Delta D'E'F'$ को शीर्षविन्दुका निर्देशाकहरू पत्ता लगाउनुहोस् र दुवै त्रिभुजहरूलाई एउटै ग्राफमा खिच्नुहोस् । [3]

b) In the fig ure, PQR is an isosceles triangle. If PQ = PR and $\angle PSQ = 90^\circ$, prove that: $\Delta PSQ \cong \Delta PSR$ [2]
दिइएको चित्रमा, PQR एउटा समद्विबाहु त्रिभुज हो । यदि PQ=PR र $\angle PSQ=90^\circ$ भए $PSQ \cong \Delta PSR$ हुन्छ भनी प्रमाणित गर्नुहोस् ।

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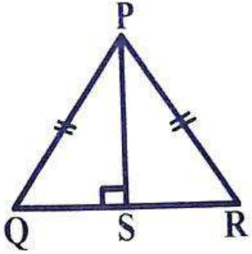

12. Marks of 10 students of Mathematics of grade eight are given below.
कक्षा आठका 10 जना विद्यार्थीहरूले गणितमा पाएको अङ्क तल दिइएको छ ।
30, 25, 42, 40, 45, 50, 46, 42, 42, 40

a) Find the mode from the above data. [1]
माथिको तथ्याङ्कबाट रीत पत्ता लगाउनुहोस् ।

b) Find the average mark from the above data. [1]
माथिको तथ्याङ्कबाट औसत अङ्क पत्ता लगाउनुहोस् ।

c) If the second mark 25 is corrected as 30, would there be any change in mode? Give your logic. [1]
यदि दोस्रो अङ्क 25 लाई सुधारेर 30 बनाइयोभने रीतमा कुनै परिवर्तन हुन्छ ? तपाईंको तर्क दिनुहोस् ।

सङ्केताङ्क नं.(Symbol No.): ....मिति: २०८२-११-०२ **७:०० बजे**

प्याब्सन काठमाडौँ महानगर
पूर्व आधारभूत शिक्षा परीक्षा-२०८२

विषय: नेपाली **पूर्णाङ्क : ५०**

कक्षा: ८ **समय: २ घण्टा**

दिइएका निर्देशनका आधारमा आफ्नै शैलीमा सिर्जनात्मक उत्तर दिनुहोस् :

सबै प्रश्नहरू अनिवार्य छन् ।

१. तल दिइएका अर्थसँग मिल्ने शब्द खोजेर खाली ठाउँमा लेख्नुहोस् : (२)

(शुभारम्भ, पुलकित, वास्तुकला, बिजुवा)

क) ज्यादै खुसी भएको अवस्था ....

ख) असल कामको थालनी ....

ग) भवन निर्माण गर्ने शिल्प ....

घ) किरात जातिको पुरोहित ....

२. कोष्ठकमा दिइएका सङ्केतअनुसार खाली ठाउँ भर्नुहोस् : (२)

क) 'धरा'को पर्यायवाची शब्द .... हो । (धरो, आकाश, पृथ्वी)

ख) 'उच्च'को विपरीतार्थी शब्द .... हो । (निम्न, समुच्च, अग्लो)

ग) .... अनेकार्थी शब्द हो । (लुलो, ठेला, ढिलो)

घ) 'रुख'को लघुतावाची शब्द .... हो । (पोथ्रो, कोक्रो, धोद्रो)

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३. अर्थ स्पष्ट हुनेगरी वाक्यमा प्रयोग गर्नुहोस् : (२)

नाक काट्नु, मतदान

४. तल दिइएका शब्द समूहबाट शुद्ध शब्द छानी लेख्नुहोस् : (१)

अ) वेसभूषा वेशभूषा वेषभुसा वेसभूशा

आ) वनीवुतो वनीवुतो वनीवुतो वनीवुतो

५. तलको वाक्यलाई शुद्ध पारी सार्नुहोस् : (२)

मेरी फुपुले मलाइ भन्नुभयो, भाई ! तिमी मसगै बजार हिँड ।

६. रेखाङ्कित पदहरूको पदवर्ग छुट्याउनुहोस् : (२)

उनी त डिलको ढुङ्गामा **बसेर** बदाम खाँदै आफ्नो अनुभव साथीहरूलाई सुनाउँदै थिए ।

७. कोष्ठकमा दिइएका धातु र सङ्केतका सहायताले खाली ठाउँ भरी वाक्य पूरा गर्नुहोस् : (२)

क) तिमी उता कहिले .... ? (जा : पूर्ण भूत काल)

ख) हामी पनि त्यतै .... । (आउ : सामान्य वर्तमान काल)

ग) पानी परेपछि काठमाडौँमा चिसो .... । (बढ् : सम्भावनार्थ)

घ) तैँले पनि क्रिकेट प्रतियोगितामा भाग .... । (लि : इच्छार्थ)

Class 8 Nepali Kathmandu Metro Pre-Basic Education Examination Question 2082-PAB

मिति: २०८२-११-०२ **७:००बजे**

८. **कोष्ठकमा दिइएका सङ्केतका आधारमा तलका वाक्य परिवर्तन गर्नुहोस् :** (३)

क) उसकी बहिनी त बिहानै गइसकिछिन् । (बहुवचन)

ख) उनीहरू चलचित्र हेर्दै थिए । (कर्मवाच्य)

ग) उनी त जोसित पनि चल्छिन् । (अकरण)

९. **तलका अनुच्छेद पढी सोधिएका प्रश्नको उत्तर दिनुहोस् :** (३)

साथीलाई भए अरूले जे दिन्थे, मैले पनि सरसल्लाह गरेर त्यस्तै उपहार दिँदा हुन्थ्यो । किताब, ज्यामिति बक्स, खेलौना, भकुन्डो, क्याल्कुलेटर आदि उपहार मजिलैसित जुटाउन सकिन्थ्यो । यसपटक त मैले त्यस्तो केही पनि सम्झिन सकिरहेको छैनँ । हाम्रो परिवारमा यो उमेरका कसैको पनि जन्मोत्सव मनाएको मलाई सम्झना छैन । जन्मदिन मात्रै कहाँ हो र ! त्यस दिन हजुरआमाको चौरासी पूजा पनि त छ । मैले हजुरआमालाई आफ्ना तर्फबाट केही न केही स्मरणीय उपहार दिनैपर्छ ।

क) माथिको अनुच्छेदबाट उपसर्ग लागेर बनेको एउटा र प्रत्यय लागेर बनेको एउटा शब्द पहिचान गरी लेख्नुहोस् ।

ख) माथिको अनुच्छेदमा रेखाङ्कित शब्दको कारक र विभक्ति छुट्याउनुहोस् ।

ग) माथिको अनुच्छेदबाट एउटा समस्त शब्द र एउटा द्वित्व भई बनेको शब्द पहिचान गरी लेख्नुहोस् ।

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१०. **दिइएको गद्यांश पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् :** (४)

बालबालिका शारीरिक तथा मानसिक रूपमा परिपक्व नहुने हुँदा उनीहरूलाई विशेष स्याहार, सुविधाको आवश्यकता पर्छ । उनीहरूलाई संरक्षण गर्नु, बाँच्नका लागि चाहिने आधारभूत कुराहरूको व्यवस्था गर्नु, शिक्षा प्रदान गर्नु, स्वास्थ्य सेवा पुऱ्याउनु, खेल, मनोरञ्जन र आराम गर्न दिनु, माया स्नेह दिनु, हेला दुर्व्यवहार र शोषणबाट जोगाउनुपर्छ । शान्ति, समझदारी र सुरक्षापूर्ण वातावरणमा असल शिक्षा हासिल गर्दै स्वस्थ भएर आफ्नो बाल्यकाल बिताउन पाउनु प्रत्येक बालबालिकाको नैसर्गिक अधिकार हो । बाल अधिकार भनेको बालबालिकालाई सामाजिक असुरक्षा, अशिक्षा, अवहेलना, तिरस्कार, शोषण र उत्पीडनविरुद्ध संरक्षण प्रदान गर्दै तिनको बालापन सुनिश्चित गर्नु हो । बालबालिका स्वयम्ले आफ्नो अधिकार लिन नसक्ने हुँदा उनीहरूको अधिकार संरक्षण गर्नु वयस्कहरूको दायित्व हो । सङ्क्षेपमा भन्नुपर्दा बाल अधिकार भनेको बालबालिकाको बाँच्न पाउने अधिकार, संरक्षण पाउने अधिकार र आफ्ना बारेमा गरिने नीति निर्माण र सामाजिक गतिविधिमा सहभागी हुन पाउने अधिकारको समष्टिगत रूप हो । सोहीअनुसार बाल अधिकारसम्बन्धी महासन्धि राज्य राज्यहरूबिचको एक सम्झौता पत्र पनि हो ।

प्रश्नहरू

क) किन बालबालिकालाई विशेष सुविधा आवश्यक पर्छ ?

ख) बाल अधिकार भनेको के हो ?

ग) बालबालिकाका नैसर्गिक अधिकारहरू के के हुन् ?

घ) कसरी बाल अधिकारको संरक्षण गर्न सकिन्छ ?

सङ्केताङ्क नं.(Symbol No.): ....मिति: २०८२-११-०२ ७:००बजे

११. दिइएको अनुच्छेदबाट चारओटा बुँदा टिपी सारांश लेख्नुहोस् : (४)

नेपालको वैदेशिक व्यापारमा प्रत्येक आर्थिक वर्ष व्यापार घाटा सहनुपरेको छ । मुलुकको अर्थतन्त्रका लागि यो गम्भीर विषय हो । नेपाली जनशक्ति विदेश पलायन हुनु तथा घरायसी उत्पादनमा मात्र सीमित हुनु समस्याको कुरा हो । निर्वाहमुखी कृषि उत्पादन, औद्योगिकीकरणप्रतिको निष्क्रियता, कच्चा पदार्थको आयात आदिका कारण पनि नेपालको वैदेशिक व्यापारमा चुनौती बढेको छ । विदेशी मुद्राको तुलनामा नेपाली मुद्राको अवमूल्यन हुनु नेपालको वैदेशिक व्यापार घाटाको प्रमुख कारण हो । नेपालको वैदेशिक व्यापार घाटा निराकरणका लागि आफ्ना जनशक्तिलाई स्वदेशमै रोजगारीको अवसर प्रदान गर्न सक्नुपर्छ । कपडा, जुत्ताचप्पल, कागज, खाने तेल जस्ता उपभोग्य वस्तुमा आत्मनिर्भर हुन सक्नुपर्छ । निर्वाहमुखी कृषि प्रणालीलाई व्यावसायीकरण र आधुनिकीकरण गर्नु अपरिहार्य छ ।

१२. कुनै एक प्रश्नको उत्तर दिनुहोस् :

क) दिइएका बुँदाका आधारमा जीवनी तयार पारी शीर्षकसमेत दिनुहोस् : (३)

नाम	: लेखनाथ पौड्याल
जन्म	: वि.सं. १९७१ साल पौष शुक्ल एकादशी, कास्की जिल्लाको अर्घौअर्चले
पितामाता	: दुर्गादत्त र वसुन्धरादेवी पौड्याल
शिक्षा	: घरमै शिक्षा आरम्भ गरेका, मध्यमासम्म उत्तीर्ण
पहिलो कविता	: शृङ्गारपच्चिसी र मनषाकर्षिणी
विशेषता	: नेपाली कवितालाई आधुनिक कालमा प्रवेश गराउने प्रथम आधुनिक कवि, परिष्कारवादी कवि, प्रकृतिको चित्रण गर्ने कवि
कृतिहरू	: लालित्य भाग १ र २ (कविता सङ्ग्रह), ऋतुविचार, बुद्धिविनोद, मेरो राम (खण्डकाव्य), तरुण तपसी (नव्यकाव्य) र भर्तृहरिनिर्वेद (नाटक)
मानसम्मान	: तत्कालीन नेपाल राजकीय प्रज्ञा प्रतिष्ठानका सदस्य, २००८ सालमा कविशिरोमणि उपाधिबाट सम्मानित
मृत्यु	: २०२२ तनहुँ, देवघाट ।

ख) हाम्रो संस्कृतिका राम्रा पक्षहरू विषयमा कम्तीमा दुई जना पात्रबिच हुने संवाद तयार पार्नुहोस् ।

१३. कुनै एक प्रश्नको उत्तर दिनुहोस् : (३)

क) टोलमा देखिएका विभिन्न सामाजिक समस्याको समाधानका लागि आग्रह गर्दै टोलसुधार समितिका अध्यक्षलाई लेखिने निवेदनको नमुना तयार पार्नुहोस् ।

ख) जिल्लास्तरीय कविता प्रतियोगितामा प्रथम भएको आफ्नो साथीलाई दिइने बधाई पत्रको नमुना तयार पार्नुहोस् ।

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१४. कुनै एकको भाव विस्तार गर्नुहोस् : (३)

क) सग्लो स्वस्थ बनाउने सुर कसी पानी लगानी गरी
चम्काऊँ लटरम्म फूलफलले अस्तित्वको माधुरी ॥

मितिः २०८२-११-०२ **७:०० बजे**

ख) नेपालका कैयौं पदमार्ग प्राकृतिक, धार्मिक तथा ऐतिहासिक दृष्टिले महत्त्वपूर्ण छन् ।

१५. दिइएको अंश पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् : (४)

संविधान देशको मूल कानुन हो । संविधानकै आधारमा अन्य सबै ऐन, कानुन बनेका हुन्छन् । यो कुरा मैले राम्ररी बुझेको छु । संविधानकै आधारमा नेपालभित्र मानव अधिकारका कुरा व्यवहारमा रहेको अनुभूति गरेको छु । मानव अधिकारका सम्बन्धमा मलाई गुरुहरूले समेत निकै कुरा बुझाउनुभएको थियो । यद्यपि अहिले मलाई संविधानभित्रका ती धेरै विषय थाहा छैनन् । मैले जानेका कुरा चाहिं यत्ति हुन्, 'संविधानको भाग ३ ले मानव अधिकार र बाल अधिकारका बारेमा व्यवस्था गरेको छ । संविधानकै धारा ३९ मा बालबालिकाको हकका बारेमा उल्लेख भएको छ । त्यस्तै राष्ट्रिय मानव अधिकार आयोग ऐन २०६८ को दफा २ (च) ले मानव अधिकारको परिभाषासमेत प्रस्तुत गरेको छ । सोही ऐनमा मानव जीवन, स्वतन्त्रता, समानता र मर्यादाका विषय समेटिएका छन् । यसमा हामी सबै सचेत हुनुपर्छ ।

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प्रश्नहरू

क) संविधानलाई किन देशको मूल कानुन भनिएको हो ?

ख) मानव अधिकार र बाल अधिकारका विषय कहाँ व्यवस्था गरिएका छन् ?

ग) नेपालमा मानव अधिकार ऐन कहिले लागु भयो ?

घ) मानव अधिकार ऐनमा के कस्ता विषय समेटिएका छन् ?

१६. कुनै एक प्रश्नको लामो उत्तर लेख्नुहोस् : (५)

क) दिइएको कथांश पढी समीक्षात्मक उत्तर लेख्नुहोस् :

वंशु गुरुङलगायत गोरखाली सेना हतियारसहित पृथ्वीनारायण शाहकहाँ पुगे । उनले हातले केही हतियार सुमसुम्याए र वंशुलाई धाप मारेर प्रशंसा गर्दै भने, "मेरो सपना तिमीहरूले पूरा गर्‍यौ । यसको श्रेय तिमेर्कै हो ।" उनले सबैलाई विजयको प्रतीक रातो टीका लगाइदिए । सेना गोरखाको जय भन्दै ब्यारेकतिर लागे ।

अ) पृथ्वीनारायण शाहको सपना कसरी साकार भयो ? माथिको कथांश र 'साकार सपना' कथालाई समेत आधार मानेर विश्लेषण गर्नुहोस् ।

ख) दिइएको यात्रा संस्मरणको अंश पढी समीक्षात्मक उत्तर लेख्नुहोस् :

गुम्बा निकै आकर्षक थियो । निमा टासी लामा गुम्बाका मूल लामा थिए । उनले भने, "भदौमा जात्रा लाग्छ । वरपरका सबै गाउँले यहाँ आइपुग्छन् धुइरिएर ।" चौंरी, भेडाच्याङ्ग्रा पालेर, आलु रोपेर, यार्चागुम्बा टिपेर यहाँका बासिन्दाको आम्दानी हुने कुरा पनि उनले बताए ।

अ) माथिको अंश र 'से गुम्बाको सुन्दरता' पाठका आधारमा हिमाली क्षेत्रको जनजीवन तथा प्राकृतिक एवम् भौगोलिक अवस्थाको चर्चा गर्नुहोस् ।

१७. कुनै एक शीर्षकमा १२५ शब्दमा नघटाई निबन्ध लेख्नुहोस् : (५)

क) मेरो जन्मभूमि

ख) सामाजिक सञ्जालको सदुपयोग

ग) वातावरण स्वच्छ राख्न विद्यार्थीको भूमिका

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PABSON KATHMANDU METRO
PRE-BASIC EDUCATION EXAMINATION-2081

Subject: Science and Technology **Full Marks: 50**

Class: 8 **Time: 2 hrs.**

Candidates are required to answer the questions in their own way words as far as practicable. Figures in the margin indicate the full marks.

Attempt all questions.

सबै प्रश्नहरू अनिवार्य छन् ।

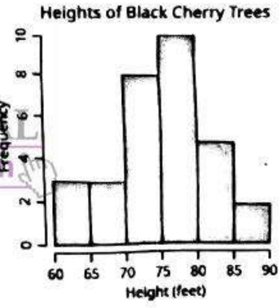
Group A

Multiple choice questions

1. **Rewrite the correct answers to your answer sheet to the following questions** **(10×1=10)**

a) What should be done while performing a chemical reaction that produces fume?
धुँवा उत्पादन हुने रासायनिक प्रतिक्रिया गराउँदा दिइएकामध्ये के गर्नुपर्छ ?
i) chemical reaction should be carried out in the table.
रासायनिक प्रतिक्रिया टेबलमा गराउनुपर्छ ।
ii) Hand should be kept away. (हात टाढा राख्नुपर्छ)
iii) chemical reaction should be done on a stand.
रासायनिक प्रतिक्रिया स्ट्याण्डमा गराउनुपर्छ ।
iv) chemical reaction should be carried out in hood.
रासायनिक प्रतिक्रिया हुडमा राखेर गराउनुपर्छ ।

b) Which of the following explains about the following data?
दिइएको तथ्याङ्कले के व्याख्या गर्दछ ?
i) collection of data (तथ्याङ्क संकलन)
ii) survey of data (तथ्याङ्क सर्वे)
iii) analysis of data (तथ्याङ्क विश्लेषण)
iv) example of research data (अनुसन्धानको तथ्याङ्कको उदाहरण)



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Class 8 Science and Technology Kathmandu Metro Pre-Basic Education Examination Q

c) Which one of the following is most correct about the significance of biodiversity?

दिइएकामध्ये जैविक विविधताको महत्वसम्बन्धि सबैभन्दा मिल्ने कुन हो ?

i) Biodiversity helps in conservation of the environment and not for the long-term development.

जैविक विविधताले वातावरण संरक्षण गर्न सहयोग गर्छ तर दीर्घकालिन विकासमा सहयोग गर्दैन ।

ii) Biodiversity helps in conservation of the environment and sustainable development.

जैविक विविधताले वातावरण संरक्षण र दीर्घकालिन विकासमा गर्न सहयोग गर्छ ।

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iii) Biodiversity helps in ecotourism but does not help in economy.

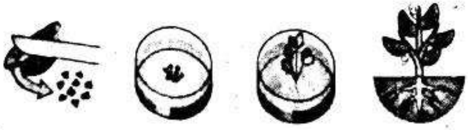
जैविक विविधताले इकोटुरिज्ममा सहयोग गर्छ तर आर्थिक लाभमा सहयोग गर्दैन ।

iv) Biodiversity helps the sustainable use of biological resources.

जैविक विविधताले जैविक स्रोतको दीर्घकालिन प्रयोगमा सहयोग गर्छ ।

d) Which of the following statement is related to the figure shown below?

दिइएकामध्ये चित्रसँग सम्बन्धित कथन कुन हो ?



i) It can be done only in non-flowering plant.

यो फूल नफुल्ने विरुवामा मात्र गर्न सकिन्छ ।

ii) Small cut pieces of both plants and animals can be taken for generating offspring.

विरुवा र जनावर दुवैको सानो टुक्रा लिएर अंकुरण गराउन सकिन्छ ।

iii) Whole part of the plant is taken for this process.

विरुवाको सबै भाग लिएर यो प्रक्रिया गराइन्छ ।

iv) Only a small piece of stem or branch of the parent plant is taken.

माउ विरुवाको डाँठ वा हाँगाको सानो भाग मात्र लिइन्छ ।

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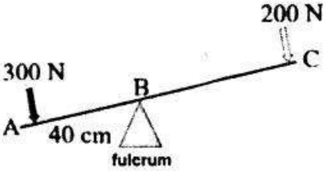
e) What should be distance between BC in the following figure?

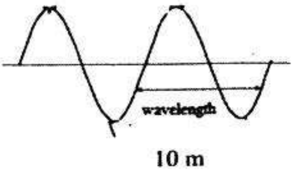
दिइएको चित्रमा BC को दुरी कति हुन्छ ?



i) 27 cm ii) 60 cm iii) 80 cm iv) 1,500 cm

f) The speed of a sound wave shown in the figure below is equal to 332 m/s. Which of the following is correct?

चित्रमा देखाइएको ध्वनिको गति 332 m/s छ भने दिइएकामध्ये उक्त चित्रसँग सम्बन्धित कुन हो ?



i) It is inaudible sound. (यो सुन्न नसकिने ध्वनि हो ।)

ii) It is audible sound. (यो सुन्न सकिने ध्वनि हो ।)

iii) It is infrasonic sound. (यो इन्फ्रासोनिक ध्वनि हो ।)

iv) It is ultrasonic sound. (यो अल्ट्रासोनिक ध्वनि हो ।)

g) If there are 3 bulbs each of power 80 W in a room used for 4 hours per day. Which of the following is the electricity bill to be paid for a month if the cost of one-unit electricity consumption is 10 rupees.

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यदि एउटा कोठामा 80 w का 3ओटा चिमहरु दिनको 4 घण्टाको दरले प्रयोग गरिन्छन् । प्रति युनिट रु.10 का दरले एक महिनामा कति विद्युत महसुल तिर्नुपर्ला ?

i) Rs.200 ii) Rs.244 iii) Rs.288 iv) Rs.300

h) A student was fond of collecting the pictures of constellations and galaxies. He collected the picture of Milky way, Gemini and Cancer but was unable to distinguish. In which way you can help him.

एकजना विद्यार्थी तारामण्डल र तारापुञ्जको चित्रहरु जम्मा गर्न मन पराउँछ । उसले आकाशगंगा, मिथुन राशी र कर्कट राशीका चित्रहरु जम्मा गरे तर उसले छुट्याउन सकेकन् । तपाइले उसलाई कसरी सहयोग गर्न सक्नुहुन्छ ?

i) Saying all 3 are constellations. (तीनओटै तारामण्डल हो भनेर ।)

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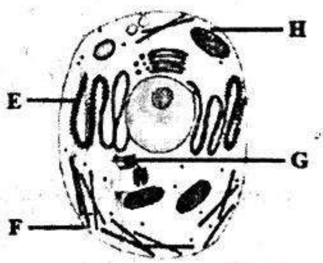
Group B

Write very short answer of the following questions: (8×1=8)

2. The PIN of ATM should be changed from time to time why?
एटिएमको पिन समय समयमा परिवर्तन गरिरहनुपर्छ, किन ?

3. A person regularly receives unwanted messages, photos and videos from another unknown person which causes his/her mental tension. Which type of cyber-crime is this?
एकजना मानिस अनावश्यक मेसेजहरु, फोटोहरु र भिडियोहरु अपरिचित व्यक्तिहरुबाट प्राप्त गरिरहन्छन् जसले गर्दा उनलाई मानसिक तनाव भैरहेको छ । यो कस्तो प्रकारको साइबर अपराध हो ?

4. What does H represent in the given figure?
चित्रमा H ले के जनाउँछ ?



5. Calculate the pressure exerted by the water tank of a height 2 m height at its bottom, if it is completely filled with water. (Density of water is 1000 kg/m^3)
2 m उचाइ रहेको भरिएको टङ्कीको पानीले पिँधमा लगाउने चाप निकाल्नुहोस् । (पानीको घनत्व 1000 kg/m^3)

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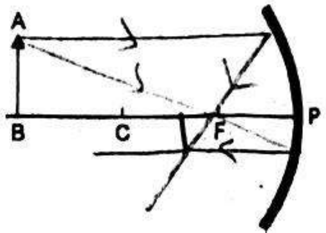
6. Complete the ray diagram shown below, the image formed by a concave mirror.
कन्केभ ऐनामा बन्ने आकृतिको दिइएको अवस्थामा किरण रेखाचित्र पुरा गर्नुहोस् ।



7. A student has drawn the atomic structure of Potassium by keeping 2, 8 and 9 electrons respectively in K, L and M shells following $2n^2$ rule. Explain the mistake with one major reason.

   एकजना विद्यार्थीले $2n^2$ नियमको आधारमा क्रमशः K, L, M, सेलहरुमा 2 , 8, 9 इलेक्ट्रोन राखेर पोटासियमको संरचना खिचे । उनले गरेको एउटा मुख्य गल्ती व्याख्या गर्नुहोस् ।

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8. Write an effect of acid rain.

   अम्लवर्षाको एउटा असर लेख्नुहोस् ।

9. A laundry man finds his white clothes becoming dull while washing in well water. Give a suggestion to him to solve the problem.

   एकजना धोबीले इनारको पानीमा धोएको कपडा मलिन भएको पाए । उनको यो समस्या समाधानको लागि कुनै एउटा सुझाव दिनुहोस् ।

Group C

Write short answer of the following questions (8×2=16)

10. Complete the following table

    दिइएको तालिका पुरा गर्नुहोस् ।

SN	प्रतिक्रियारत पदार्थ Reactants	उत्पादित पदार्थ Products
1.	Mg+ HCl	...........A
2.	H_2SO_4 + KOH	...........B

11. Write any two differences between bacteria and fungi.

    ब्याक्टेरिया र फन्जाई विच कुनै दुईओटा भिन्नताहरु लेख्नुहोस् ।

12. Due to the unplanned road construction, a village is suffering from landslide every year. Give any two suggestions to the local government to solve this problem.

    विनायोजना सडक निर्माणले एउटा गाउँले प्रत्येक बर्ष पहिरो जाने समस्या झेलिरहेको छ । उक्त समस्या समाधानको लागि स्थानीय सरकारलाई कुनै दुईओटा सुझावहरु दिनुहोस् ।

13. A bus driver is driving with a velocity of 25 m/s. He saw a child cycling towards him at a distance of 150 m. To protect the child driver applied brake to stop the bus at a distance of 100 m in 4 sec. Calculate the retardation of the car.

    एकजना बस चालकले 25 m/s को गतिमा बस हाँकिरहेको छ । उनले 150 m को

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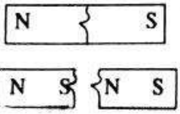
उक्त बालकलाई बचाउन उलने बसको ब्रेक लगाए र बस 100 m को दुरीमा रोकियो । उक्त बसको रिटार्डेसन हिसाब गर्नुहोस् ।

14. What does the given figure represent? Explain.

दिइएको चित्रले के जनाउँछ ? व्याख्या गर्नुहोस् ।



15. Write any 2 differences between live wire and neutral wire.

लाइभ तार र न्युट्रल तारबिच कुनै दुईओटा फरकहरु लेख्नुहोस् ।

16. a) In which era did the animals shown evolve and extinct?

दिइएका जीवहरु कुन युगमा विकास भए र लोप भए ?

b) What is a major reason for their extinction?

यिनीहरुको लोप हुनाको मुख्य कारण लेख्नुहोस् ।

17. What are energy minerals? Write an example of it.

शक्ति खनिज भनको के हो ? कुनै एउटा उदाहरण दिनुहोस् ।

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Group D

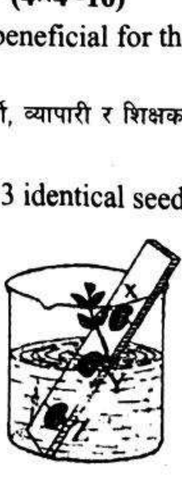
Write the long answer of the following questions (4×4=16)

18. Define artificial intelligence. How is use of AI beneficial for the students, businessman and teacher?

कृतिम बुद्धिमताको परिभाषा दिनुहोस् । कृतिम बुद्धिमता विद्यार्थी, व्यापारी र शिक्षकको लागि कसरी फाइदाजनक हुनसक्छ ?

19. A student performs an experiment to germinate 3 identical seeds by keeping them as shown in the figure.

एकजना विद्यार्थीले तीनओटा उस्तै किसिमका बिउहरु लिएर चित्रमा देखाएजस्तै गरि अंकुरणको प्रयोग गरे ।



a) Which seed will germinate fast and why?

यीमध्ये कुनचाहिँ बिउ छिटो उम्रन्छ र किन ?

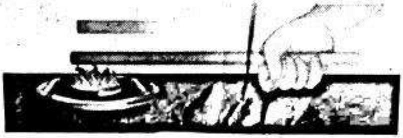
b) What is the objective of carrying out this experiment?
यो प्रयोग गर्नुको उद्धेश्य के हो ?

c) What should we do for he germination of seed X?
बीउ X अंकुरण हुन के गर्नुपर्ला

20. a) Which method of heat transfer is shown in the figure below?
दिइएको चित्रमा ताप प्रसारणको कुन विधि देखाइएको छ ?

b) Does this method work in the space? Explain.
के यो विधिलेल अन्तरिक्षामा काम गर्छ ? व्याख्या गर्नुहोस् ।

c) Write any 2 uses of the method which works in the space in our daily life.
अन्तरिक्षामा ताप प्रसार हुने विधिको हाम्रो दैनिक जीवनमा कुनै दुई उपयोगिताहरु लेख्नुहोस् ।



21. Study the following table.
दिइएको तालिका अध्ययन गर्नुहोस् ।

तत्वहरु Elements	इलेक्ट्रोन विन्यास Electron configuration
A	2, 6
B	2,8,2

a) Write the molecular formula formed from the elements A and B (show the process).
A र B बाट बन्ने अणुको आणविक सुत्र लेख्नुहोस् । (प्रक्रिया समेत)

b) Calculate the molecular mass of the molecule thus formed.
यसरी बन्ने अणुको आणविक भार हिसाब गर्नुहोस् ।

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सङ्केताङ्क नं.(Symbol No.) ....मिति: २०८२-११-०६ ७:०० बजे

प्याब्सन काठमाडौं महानगर
पूर्व आधारभूत शिक्षा परीक्षा-२०८२

विषय: सामाजिक अध्ययन तथा मानव मूल्य शिक्षा **पूर्णाङ्क : ५०**

कक्षा: ८ **समय : २ घण्टा**

दिइएका निर्देशनका आधारमा आफ्नै शैलीमा सिर्जनात्मक उत्तर दिनुहोस् :

सबै प्रश्नहरू अनिवार्य छन् ।

समूह 'क'

तल दिइएका प्रश्नको अति छोटो उत्तर लेख्नुहोस् । **(९×१=९)**

१. विकास पूर्वाधार भन्नाले के बुझिन्छ ?

२. पर्म परम्पराको कुनै एक महत्व लेख्नुहोस् ।

३. तपाईंले पालना गर्दै आउनु भएको दुईओटा आदर्श व्यवहार लेख्नुहोस् ।

४. नेपालको संविधान अनुसार प्रतिनिधि सभाको सदस्य हुनका लागि उमेर कति वर्ष पूरा भएको हुनुपर्छ ?

५. दाइजो प्रथा विरुद्ध एक चेतनामूलक नारा तयार पार्नुहोस् ।

६. व्यावहारिक शिक्षाले सामाजिक समस्या तथा विकृति निराकरणमा सहयोग पुऱ्याउँछ, कसरी ? आफ्नो धारणा एक वाक्यमा लेख्नुहोस् ।

७. नेपालमा व्यापार घाटा कम गर्न अपनाउनुपर्ने कुनै एक उपाय लेख्नुहोस् ।

८. तपाईंको परिवारले के कस्ता कार्यमा अनलाइन भुक्तानी गर्दै आउनुभएको छ कुनै दुईवटा कार्य लेख्नुहोस् ।

९. दुई देशबिचको सम्बन्ध अभिवृद्धि गर्न कुटनीतिंक नियोगको भूमिका किन महत्वपूर्ण हुन्छ, ? आफ्नो धारणा एक वाक्यमा लेख्नुहोस् ।

समूह 'ख'

तल दिइएका प्रश्नको छोटो उत्तर लेख्नुहोस् । **(७×३=२१)**

१०. सङ्घीय राज्यको महत्व शीर्षकमा वक्तृताको नमुना तयार गर्नुहोस् ।

११. नेपालको राष्ट्रिय गानले विविधतामा एकता ल्याउने प्रयास गरेको छ, कसरी ? आफ्नो धारणा तीन बुँदामा लेख्नुहोस् ।

१२. द्वन्द्व व्यवस्थापनमा मध्यस्थकर्ताको भूमिका कस्तो हुनुपर्दछ ? तीन बुँदामा प्रस्तुत गर्नुहोस् ।

१३. प्राचीन काठमाडौंको सामाजिक संरचना तीन बुँदामा लेख्नुहोस् ।

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मितिः २०८२-११-०६ **७:००बजे**

१४. पृथ्वीको दैनिक गति (परिभ्रमण)को तीन प्रभाव उल्लेख गर्नुहोस् ।

१५. राष्ट्रिय जनगणना २०७८ अनुसार नेपालको वृहत उमेर समुह अनुसार जनसङ्ख्या बनोटको अवस्था विश्लेषण गर्नुहोस् ।

१६. धेरैवटा देशमा नेपालको राजदूतावासहरु छन् । तपाइँ नेपालको प्रतिनिधित्व गर्दै कुनै देशको राजदुत हुनुभयो भने तपाइँले के कस्ता कार्य गर्नुहुन्थ्यो ? तीनवटा कार्य उल्लेख गर्नुहोस् ।

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समूह 'ग'

तल दिइएका प्रश्नको लामो उत्तर लेख्नुहोस् । (४×५=२०)

१७. संविधान सभाबाट निर्माण गरिएको संविधानमा जनताको अपनत्व रहन्छ, किन ? आफ्नो विचार पाँच बुँदामा प्रस्तुत गर्नुहोस् ।

१८. सिन्धु उपत्यकाको सभ्यताको सामाजिक तथा आर्थिक जनजीवन पाँच बुँदामा प्रस्तुत गर्नुहोस् ।

१९. नेपालको आर्थिक तथा सामाजिक विकासमा पर्यटन उद्योगको पाँचओटा महत्व प्रस्तुत गर्नुहोस् ।

२०. पृष्ठभरीको नेपालको नक्सा बनाई उपयुक्त सङ्केतको प्रयोग गरी निम्न तथ्यहरू भर्नुहोस् । ३+२=५

चितवन राष्ट्रिय निकुञ्ज , सगरमाथा हिमाल

National Private and Boarding Schools Association Nepal

National PABSAN, Bhaktapur

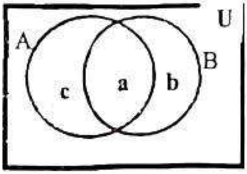
PRE BASIC LEVEL EXAMINATION - 2082

Class : EIGHT **Time : 2 hrs** **F.M : 50**

Subject : Compulsary Mathematics

सबै प्रश्न अनिवार्य छन् । (Attempt all the questions)

1. यहाँ, समूह A र B लाई एउटा भेन चित्रमा देखाइएको छ । Here, sets A and B are shown in the Venn diagram.



   a) अनुपयुक्त उपसमूहलाई परिभाषित गर्नुहोस् Define improper subset. [1]

   b) समूह B को कुनै 2 वटा उपयुक्त उपसमूहहरु लेख्नुहोस् । Write any two proper subsets of set B. [1]

   c) समूह A बाट बढीमा कतिओटा उपसमूहहरु बनाउन सकिन्छ ? How many maximum number of subsets can be made from set A? [1]

2. एउटा पसलेले अंकित मुल्य रु. 30,000 भएको टेलिभिजनलाई 20 % छुटमा बेचेछ । (A shopkeeper marks a TV at Rs 30,000 and sold at 20% discount.

   a) विक्रय मुल्य (SP) लाई अंकित मूल्य (MP) र छुट प्रतिशत (D%) को रुपमा लेख्नुहोस् । (Write the selling price (SP) in terms of marked price (MP) and discount percent (D%).

   b) उक्त टेलिभिजनको छुट रकम पता लगाउनुहोस् । (Find the discount amount of that TV.) [1]

   c) उक्त टेलिभिजनमा 15% नाफा हुँदा क्रयमुल्य कति हुन्छ ? पता लगाउनुहोस् । (What is the cost price of TV, while there is 15% profit? Find it. [2]

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3. एउटा पानी ट्याङ्कीको कूल क्षमता 25000 लिटर रहेको छ । The total capacity of water tank is 25000 l.

   a) उक्त पानी ट्याङ्कीको क्षमतालाई वैज्ञानिक सङ्केतमा लेख्नुहोस् । Write the capacity of water tank in scientific notation.

   b) $0.\overline{25}$ लाई भिन्नमा रुपान्तरण गर्नुहोस् । (Convert $0.\overline{25}$ into fraction). [2]

Pre-BLE Class 8 Compulsory Mathematics Exam Question Paper 2082 N-PABSAN Bhakta

c) 25 लाई द्विआधार संख्यामा पद्धतिमा रुपान्तर गर्नुहोस् । (Convert 25 into binary number system. [1]

d) उक्त पानी ट्याङ्कीमा रहेको पुरै पानी 50 वटा ससाना ट्याङ्कीमा बराबर राख्दा एउटा सानो ट्याङ्कीमा कति अटाउँछ ? If all the water in the water tank is divided into 50 small tanks, how much water will fit in one small tank?. [1]

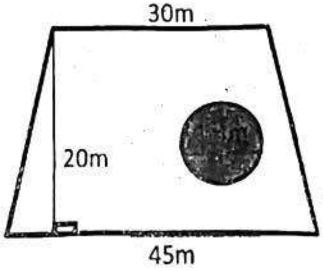
4. रमेशले रु 55,000 रकम 2:3 को अनुपातमा नेपाल बैंक र बाणिज्य बैंकमा जम्मा गरेछन् । (Ramesh deposited Rs. 55000 in Nepal bank and Banijya bank in the ratio of 2:3.).

a) उनले वाणिज्य बैंकमा कति रकम जम्मा गरेछन् ? How much money had he deposited in the Banijya bank? [2]

b) यदि उनले नेपाल बैंकमा जम्मा गरेको रकमबाट वार्षिक 10% ब्याज पाउने भए भने २ वर्षमा कति ब्याज पाउँछन् ? (If he gets 10% interest per year on the amount deposited in Nepal Bank, how much interest will he get in 2 years?) [2]

c) x को मान कति हुंदा $x:5 = 2:3$ हुन्छ ?
(For, what value of x, $x:5 = 2:3$ hold? [1]

5. चित्रमा समलम्ब चर्तुभुज आकारको जग्गामा 1.4 m व्यास भएको इनार देखाइएको छ । (In the figure, a circular well having diameter 1.4m. is shown in the trapezium shaped land.)



a) वृत्तको क्षेत्रफल निकाल्ने सुत्र लेख्नुहोस् ।
(Write the formula to calculate the area of circle.) [1]

b) इनारको माथिल्लो वृताकार सतहको क्षेत्रफल निकाल्नुहोस।
(Find the area of the upper circular part of the well.) [1]

c) इनार बाहेकको जग्गाको क्षेत्रफल पता लगाउनुहोस् ।
(Find the area of land except the well.)

d) के इनारको आधारको अर्धव्यास दोब्बर गर्दा क्षेत्रफल पनि दोब्बर हुन्छ ? तर्कसहित पूष्टि गर्नुहोस् ।

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(Does area double when radius of the base of the well is doubled? Verify with logic.) [1]

6. a) $(2x)^0$ को मान कति हुन्छ ? What is the value of $(2x)^0$? [1]

b) प्रमाणित गर्नुहोस् । Prove that:

$$(x^{a-b})^{a+b} \cdot (x^{b-c})^{b+c} \cdot (x^{c-a})^{c+a} = 1$$ [2]

7. a) म स पता लगाउनुहोस् । Find the H.C.F. of :
$x^2 - 5x - 6$ and $x^2 + 1$. [2]

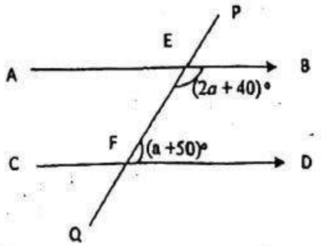
b) x को मान कति भएमा $x^2 - 5x - 6$ को मान शुन्य हुन्छ ? At what value of x, the value of $x^2 - 5x - 6$ becomes zero? [2]

8. दुईवटा समीकरणहरु तल दिइएका छन् । (Two equations are given below.
$x + y = 5$ and $x - y = 3$.

a) दिइएका समीकरणको पद्वतिलाई के भनिन्छ? (What is the system of given equations called? [1]

b) लेखाचित्रको प्रयोग गरेर माथि दिइएको समीकरणहरुको हल गर्नुहोस् । (Solve the above equations by using graphical method.) [2]

9. सँगैको चित्रमा, AB र CD समानान्तर रेखाहरु छन् ।
In adjoining figure, AB and CD are parallel lines.



a) माथिको चित्रवाट, एक जोडा संगत कोणहरुको नाम लेख्नुहोस् । Write the name of pair of corresponding angles from figure. [1]

b) ∠BEF को मान पता लगाउनुहोस् । Find the value of ∠BEF. [2]

c) ∠BEP र ∠QFD को नाप तुलना गर्नुहोस् । Compare the measurement of ∠BEP and ∠QFD. [1]

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10 a) नियमित टेसिलेसनमा कुन त्रिभुजको प्रयोग गरिन्छ ?लेख्नुहोस् । (Which triangle is used in regular tessellation? Write it.) [1]

b) AB = 8 cm, BC = 6 cm र $\angle BAC = 75^\circ$ भएको समानान्तर चर्तुभुज ABCD को रचना गर्नुहोस् । Construct a parallelogram ABCD having AB = 8 cm, BC = 6 cm and $\angle BAC = 75^\circ$. [3]

c) समानान्तर चर्तुभुज ABCD को विकर्ण BD खिच्नुहोस् र प्रमाणितं गर्नुहोस् : ΔABD ≅ ΔCBD. (Draw a diagonal BD in the parallelogram ABCD and prove that: ΔABD ≅ ΔCBD. [2]

11. a) उद्गम बिन्दु बाट बिन्दु B(3, - 4) सम्मको दुरी निकाल्नुहोस् । Find the distance of the point B(3, - 4) from the origin. [2]

b) समद्विबाहु त्रिभुजका आधारका कोणहरु बराबर हुन्छन भनि प्रयोगबाट सिद्ध गर्नुहोस् । (फरक फरक नापका दुईओटा त्रिभुजहरु आवश्यक छन् ।) Experimentally verify that the base angles of an isosceles triangle are equal. (Two triangles with different measurement are necessary.) [3]

12. एउटा परिवारको एक महिनाका खर्च विवरण यस प्रकार छ । (The monthly expenditure of a family is given below.)

खर्च विवरण Expenditure	यातायात Transportation	शिक्षा Education	स्वास्थ्य Health	कपडा Cloths
रकम (Amount in Rs)	1500	3000	2500	2000

a) माथिको तथ्याङ्कलाई वृत्तचित्रमा प्रस्तुत गर्नुहोस् । Present the above information in a pie chart. [2]

b) उक्त परिवारको औषत खर्च निकाल्नुहोस् । Find the average expenditure of the family. [1]

सिम्बोल नं. ....

भक्तपुर नगरपालिका

आधारभूत तह परीक्षा-२०८२

कक्षा : ८ पूर्णाङ्क : ५०

विषय : सामाजिक अध्ययन तथा मानव मूल्य शिक्षा समय : २ घण्टा

समूह 'क'

अति छोटो उत्तर आउने प्रश्नहरू : (९×१=९)

१) तपाईं बसोबास गर्ने प्रदेशको राजधानी कुन हो ?

२) गुठी परम्पराको एउटा महत्त्व लेख्नुहोस् ।

३) सम्पदा संरक्षण गर्न सहयोग पुऱ्याउने एउटा नारा लेख्नुहोस् ।

४) सुशासन भनेको के हो ?

५) कक्षाका साथीहरूबिच द्वन्द्व भए तपाईं कसरी व्यवस्थापन गर्नुहुन्छ ?

६) बौद्धिक पलायनको कारण देशले ठूलो नोक्सानी बेहोर्न बाध्य हुन्छ भन्ने विषयमा एक तर्क प्रस्तुत गर्नुहोस् ।

७) वैदेशिक व्यापार भनेको के हो ?

८) ए.टी.एम. कार्ड प्रयोग गर्दा ध्यान दिनु पर्ने दुईओटा कुराहरू लेख्नुहोस् ।

९) संयुक्त राष्ट्र सङ्घको सदस्यता प्राप्त गर्न आवश्यक एउटा प्रावधान लेख्नुहोस् ।

समूह 'ख'

छोटो उत्तर आउने प्रश्नहरू : (७×३=२१)

१०) तपाईंको समुदायमा स्थानीय सरकारले गरेका राम्रा कार्यहरू बयान गर्दै बाहिरी जिल्लामा वस्ने साथीलाई इमेल लेख्नुहोस् ।

११) हेनरी ड्युना र मदर टेरेसाको योगदानबाट प्राप्त गर्न सकिने तीनओटा प्रेरणाहरू उल्लेख गर्नुहोस् ।

१२) भ्रष्टाचारले देशलाई पार्ने तीनओटा असरहरू उल्लेख गरी भ्रष्टाचार अन्त्य गर्न आवश्यक तीन ओटा कार्यहरू लेख्नुहोस् ।

१३) युरोपमा भएको पुनर्जागरणले ल्याएको तीनओटा परिवर्तनहरू लेख्नुहोस् ।

१४) जलवायु परिवर्तनका असरलाई कम गर्ने तीन उपायहरू लेख्नुहोस् ।

१५) वि.सं. २०८० सालमा भक्तपुर जिल्लाको कूल जनसङ्ख्या ५,००,००० थियो । यदि सो वर्षमा भक्तपुर जिल्लाबाट अन्य जिल्लाहरूमा १५,००० जना बसाइँ सरेर गए र ५०,००० जना अन्य जिल्लाबाट बसाइँ सरेर आए भने आप्रवास दर र उत्प्रवास दर निकाल्नुहोस् ।

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१६) संयुक्त राष्ट्र सङ्घमा नेपालले खेलेको भूमिका विषयमा दुई साथीहरूबिच भएको संवादको नमूना तयार पार्नुहोस् ।

समूह 'ग'

लामो उत्तर आउने प्रश्नहरू : **(४×५=२०)**

१७) नेपालको संविधानमा राज्यलाई राज्यलाई समावेशी बनाउन व्यवस्था भएको पाँचओटा प्रावधानहरू लेख्नुहोस् ।

१८) किराँतकालीन सामाजिक अवस्था बयान गर्नुहोस् ।

१९) नेपालको वैदेशिक व्यापारका तीन वटा समस्याहरू र ती समस्या समाधानका दुईओटा उपायहरूको सूची बनाउनुहोस् ।

२०) नेपालको नक्सा निर्माण गरी दिइएका तथ्यहरूलाई उपयुक्त सङ्केतमा देखाउनुहोस् ।

मुक्तिनाथ मन्दिर

बाग्मती नदी

कञ्चनजङ्गा हिमाल

सफलताको शुभकामना

सिम्बोल नं. ....

भक्तपुर नगरपालिका

आधारभूत तह परीक्षा–२०८२

कक्षा : ८ पूर्णाङ्क : ५०

विषय : अनिवार्य नेपाली समय : २ घण्टा

(विद्यार्थीले उत्तर दिँदा आफ्नै भाषाशैलीमा मौलिक र सिर्जनात्मक उत्तर दिने गर्नुपर्दछ ।)

१) दिइएका अर्थसँग मिल्ने शब्द खाली ठाउँमा लेख्नुहोस् : (२)

निडर, मापन, एकीकरण, शीघ्रतीशीघ्र, मिजास

क) डर नभएको ......

ख) छिटोभन्दा छिटो .....

ग) एउटै बनाउने काम .....

घ) शीलस्वभाव.....

२) खाली ठाउँमा मिल्दो शब्द भर्नुहोस् : (२)

क) 'बगैंचा'को पर्यायवाची शब्द ......हो । (फूल, उद्यान, अरण्य)

ख) 'जीवन'को विपरीतार्थी शब्द ....हो । (जन्म, मरण, चरण)

ग) 'अन्न'को समावेश्य शब्द ..... हो । (अन्य, अनार, मकै)

घ) ....अनेकार्थी शब्द होइन । (थर, कर, दर)

३) अर्थ खुल्ने गरी वाक्यमा प्रयोग गर्नुहोस् : (२)

बाँदरको हातमा नरिवल, कपाकप

४) शुद्ध शब्द छानेर लेख्नुहोस् : (१)

अ) शहिद सहिद षहिद सहीद

आ) वहुवचन बहुवचन बहूवचन वहुवचन

५) दिइएका वाक्यलाई शुद्ध पारी लेख्नुहोस् : (२)

झ्यालबाट यक बोलाहटको आवाज आयो, भाजुलाल दाजू

६) रेखाङ्कित शब्दहरूको पदवर्ग छुट्याउनुहोस् : (२)

घरमा पुगेपछि ती दुई भाइले पोथी सिंहका अगाडि घटनाको सबै वृतान्त बताए ।

७) दिइएका धातु र सङ्केतका आधारमा खाली ठाउँमा भर्नुहोस् : (२)

क) निरज आफ्नो काम आफैं ..... । (गर्: सामान्य भविष्य)

ख) हरिश्चन्द्र राम्रो चित्र ...... । (बनाउः अज्ञात भूत)

ग) हामी असल नागरिक.....। (बन्: इच्छार्थ)

घ) भोलि ठूलो पानी ..... । (पर्: सम्भावनार्थ)

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८) **दिइएका सङ्केतका आधारमा वाक्य परिवर्तन गर्नुहोस् :** (३)

क) हामी विद्यालय जान्छौं । (तृतीय पुरूष)

ख) तिमी दाल, भात, तरकारी र अचार खाऊ । (अकरण)

ग) श्यामले घर गएर खाना खायो । (संयुक्त वाक्य)

९) **दिइएको अनुच्छेद पढी उत्तर लेख्नुहोस् :** (३)

प्रपन्नचार्यका आमाबुबाले फल्गुनन्दको प्रवचन हरसाल प्रत्यक्ष रूपमा पटकपटक सुनेका थिए । प्रपन्नचार्यले कडा अनुशासनका बिच आश्रमका नीतिनियम पालन गरेका थिए । मुन्धुमको महत्त्वका बारेमा पनि उनी जानकार हुँदै गए । खुला हृदयका साथ सामाजिक क्रियाकलापमा लाग्दा उनको दयालु स्वभाव देखेर सबै प्रसन्न थिए । उनलाई आ-आफ्नो तरिकाले सम्मान प्रकट गर्थे ।

प्रश्नहरू

क) अनुच्छेबाट उपसर्ग र प्रत्यय लागेर बनेका एक एक शब्द पहिचान गरी लेख्नुहोस् ।

ख) माथिको अनुच्छेबाट एउटा द्वित्व र एउटा समस्त शब्द पहचान गरी लेख्नुहोस् ।

ग) अनुच्छेदबाट रेखाङ्कित शब्दको कारक तथा विभक्ति पहिचान गरी लेख्नुहोस् ।

१०) **दिइएको गद्याशं पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् :** (४)

मानिस बुद्धिले बाँच्छ । मानिससँग सोच्ने मस्तिष्क र काम गर्ने हात छन् । मस्तिष्कले सुन्दर प्रकृतिका कल्पना गर्नुपर्दछ । मानवीय क्रियाकलाप वातवरणको रक्षामा केन्द्रित हुनुपर्छ, वैज्ञानिक चमत्कार र मानवीय उन्नति भित्र प्रकृतिको विनाश समेटिनु हुँदैन । प्राकृतिक श्रोतको परिचालन गर्दा आफ्नो खुट्टामा बञ्चरो हान्नु हुँदैन । मानिस कल्पनाशील प्राणी हो । उसले विकास, उन्नति, आविष्कार, रचना र सिर्जनाको रूपमा कल्पनालाई साकार पार्छ । कल्पना साकार पार्ने उद्देश्य पूर्ति गर्ने क्रममा प्रकृतिको विनाश गर्नुहुँदैन । मानवीय क्रियाकलापले वातावरण प्रतिकूल भए मानिस संकटको भुमरीमा फस्छ । जीवन सरल बनाउन उद्योगधन्दा स्थापना गर्छ । त्यसले वातावरणमा रहेका हावापानी र जमिन प्रदुषित बनाउँछ ।

प्रश्नहरू

क) मानिस कस्तो प्राणी हो ?

ख) मानिससँग केके छन् ?

ग) मानिसले के गर्नु हुँदैन ?

घ) मानिस कसरी संकटको भूमरीमा फस्छ ?

११) **दिइएको अनुच्छेद पढी चारओटा बुँदा टिपोट गर्नुहोस् :** (४)

गोरखाका राजा पृथ्वीनाराण शाह आफ्नो राज्यको सिमाना बढाउन चाहन्थे । उनले कीर्तिपुरमाथि तेस्रो प्रयासमा विजय प्राप्त गरे । कीर्तिपुर विजय गरेपछि लुटिकोट र मुडिकोटका गाउँ जितेर उनले कान्तिपुरका राजा जयप्रकाश मल्लको दिमागमा खतराको घण्टी बजाइदिए । जयप्रकाश मल्लले एकदिन भक्तपुरका राजा रणजित मल्ल र ललितपुरका मन्त्रीलाई गुहेश्वरी

मन्दिरमा बोलाए । उनले मन्दिरको पूर्वपट्टिको पाटीमा बसेर यसरी बोलाउनुको कारण खोल्दै भने, 'गोरखाली राजाले कान्तिपुरमा आक्रमण गर्ने योजना बनाइरहेका छन् । तपाईहरूले मलाई सहयोग गर्नुपर्‍यो । तपाईंहरूलाई पर्दा म सहयोग गर्नेछु ।' लामो छलफलपछि सबैले धर्म भाके ।

१२) कुनै एक प्रश्नको उत्तर लेख्नुहोस् : (३)

क) दिइएका बुँदाका आधारमा छोटो कथा तयार पारी उपयुक्त शीर्षक दिनुहोस् ।

कुनै गाउँमा धेरै किसानको बस्ती हुनु........ उनीहरूले धेरै अन्न उब्जाउनु .... खेत नजिकैको जङ्गलमा परेवाको बथान बस्नु ...... परेवाले खेतबारीका किरा खानु ...... किसानको बाली सप्रिनु .... परेवाको कामबाट किसान खुसी भई धान खान दिनु .....परेवाले किरा खान छाडी धान खान पल्कनु ..... धान खेतको धान सखाप पार्नु .... किसान रिसाउनु ..... जाल थापेर परेवा मार्नु ..... गुन गर्नेको बैगुन गर्न नहुने सन्देश ।

ख) 'बाल अधिकार' शीर्षकमा दुई जना साथीबिच हुने संवादको नमुना तयार पार्नुहोस् ।

१३) कुनै एक प्रश्नको उत्तर लेख्नुहोस् : (३)

क) आफ्नो पढाइको बारेमा जानकारी दिँदै दाइलाई चिठी लेख्नुहोस् ।

ख) तपाईंको विद्यालयमा यस वर्ष आयोजना गर्न लागेको नाटक महोत्सवमा उपस्थित भइदिनुहुन अनुरोध गर्दै अभिभावकलाई लेखिने निमन्त्रणा पत्र तयार पार्नुहोस् ।

१४) कुनै एकको भाव विस्तार गर्नुहोस् : (३)

क) सगरमाथा आरोहण र जीवन् यात्रा उस्तै हो ।

ख) फर्क युवा हो फर्क
यो देशको इतिहास हामी आफैंले लेख्नुपर्छ ।

१५) तलको कवितांश पढी सोधिएका प्रश्नको उत्तर लेख्नुहोस् : (४)

प्रातः काल हिमाल हाँस्छ जसरी अस्तित्व फैलाउँदै
सारा चेतनशील जीवन जगत् ब्युँझन्छ जागा हुँदै
यो जागापन सिर्जनमुखी फैलाउँदै चेतना
हामी गर्न सकौं न जीवनमुखी साहित्यको सिर्जना

प्रश्नहरू

क) बिहानै हिमाल कसरी हाँस्छ ?

ख) चेतनशील प्राणीहरू कसरी जागा हुन्छन् ?

ग) जीवनमुखी साहित्यको सिर्जना कसरी गर्न सकिन्छ ?

घ) यस कवितांशको आशय के हो ?

१६) कुनै एक प्रश्नको उत्तर लेख्नुहोस् : (५)

क) तलको निबन्धांशको अंश पढी सोधिएको प्रश्नको समीक्षात्मक उत्तर दिनुहोस् ।

हुन त म वा हामी जस्तै मानव नै बालबालिका, पुरूष, महिला, जेष्ठ नागरिक, अपाङ्गता भएकाआदि अनेक किसिमबाट चिनिने गर्छौं । हामी सबैलाई मानव बारेमा धेरै नीतिका कुरा थाहा नहुन सक्छ । संयुक्त राष्ट्रसंघले मानव अधिकारका क्षेत्रमा विशेष अधिकार निर्धारण गरेको छ रे ।

प्रश्न

मानव अधिकारका विषय क्षेत्रको कसरी उपयोग भएको पाउनुभएको छ ? मानव अधिकार निबन्धका आधारमा उत्तर दिनुहोस् ।

ख) दिएको कथांशको अंश पढी सोधिएको प्रश्नको उत्तर दिनुहोस् ।

जुजुलालको मानव देह चिताको खरानी भएर नाश भए पनि सङ्गमरमरको आकर्षक मूर्तिका रूपमा कृष्णावतार छोरो त कालान्तरसम्म संसारमा रहिरहला । अब़ यही मूर्ति भाजुलालको अमर पुत्र हुनेछ ।

प्रश्न

'अमर पुत्र कथाका आधारमा मानिस मरेर गए पनि कला अमर रहन्छ ।' भन्ने कुरालाई पुष्टि गरी समीक्षात्मक उत्तर दिनुहोस् ?

१७) कुनै एक शीर्षकमा १२५ शब्द नघटाई निबन्ध लेख्नुहोस् । (५)

क) समाजसेवा

ख) मेरो कल्पनाको देश

ग) प्रविधियुक्त शिक्षाको आवश्यकता

सफलताको शुभकामना