

IIM Bangalore UG Exam 2025

Verbal Ability

The passage below is accompanied by four questions. Based on the passage, choose the best answer for each question.

Vision impairment continues to disproportionately affect women and girls, revealing a persistent and deeply entrenched gender disparity in global health outcomes. Preventing avoidable blindness is therefore not merely a medical imperative but a crucial socio-developmental strategy that contributes directly to the reduction of gender inequalities and the broader attainment of the Sustainable Development Goals.

Current global estimates indicate that more than half of all blind adults are women, while a significant majority of blind children are girls. This imbalance is often rooted in traditional gender roles that expose women to greater health risks. Activities such as cleaning, caregiving and the collection of water frequently situate women in environments where they encounter vision-impairing pathogens. Additionally, these responsibilities severely restrict their time and mobility, resulting in delayed or entirely neglected eye health interventions.

Vision loss among women tends to intensify existing social inequities. It can curtail access to education, diminish employment prospects, and, in some contexts, lead to social marginalisation. Such circumstances increase women's dependence on male relatives and substantially reduce their autonomy and decision-making power within the household and the community. Conversely, improved eye health has a demonstrable ripple effect. When women are enabled to make informed choices about their own health, they positively influence the well-being of their families and contribute to enhanced community resilience.

In many regions, community health workers trained by Operation Eyesight's partner institutions are women. Their participation in these roles positions them as trusted community leaders and agents of transformative change. Employment in health services not only strengthens their economic independence but also elevates their status within their families, promoting greater socioeconomic stability.

Operation Eyesight continues to pursue gender transformative strategies by engaging directly with communities to identify barriers faced by women, expanding training opportunities and fostering a more inclusive health workforce. This approach ensures that even the most vulnerable populations receive equitable access to essential eye care services.

1. Which factor most strongly contributes to women's greater exposure to vision-impairing risks?
 1. A natural biological tendency that increases their likelihood of eye ailments.
 2. Limited access to healthcare services in households and communities.
 3. Traditional domestic roles that frequently place them in hazardous environments.
 4. Lack of access to education and diminished employment prospects.
2. Which statement best captures the central theme of the passage?
 1. Sustainable Development Goals can be attained by focusing on women's employment.
 2. Preventing avoidable blindness is essential for promoting gender equity and progress.
 3. Vision impairment in women emerges mainly from unavoidable biological causes.
 4. Women need wider employment pathways to overcome persistent global inequality.
3. Which statement, if true, would weaken the passage's claims on gender imbalance in eye care the most?
 1. Data reveals women face no additional barriers in accessing quality vision treatment.

2. Communities report that engaging women in eye care significantly improves household health outcomes.
3. Latest reports reveal that less than half of all blind adults are women.
4. Women do not have to collect water due to a scheme that provides tap water to every household.
4. What is a consequence of women being engaged as community health workers?
 1. Women are able to make more informed health choices.
 2. Employing women in health work directly resolves social inequities.
 3. Greater female representation in health roles enhances status and influence.
 4. Women can harness their superior caregiving skills.

Read the following passage and answer the questions that follow.

In an epoch intoxicated by its own technological omnipotence, humanity has transformed health into a quantifiable pursuit - fitness metrics, calorie counters, heart-rate monitors, and serotonin graphs. The ancient art of healing has been supplanted by the commerce of treatment; hospitals resemble corporations, and the physician, once a custodian of empathy, now negotiates uneasily between profit and protocol. Longevity has become the new paradigm. In chasing endless life, we seem to have forgotten how to live.

Dr. Ira Sen, an eminent neuroscientist renowned for her pioneering work on cognitive architecture, abandoned her illustrious career after discerning a paradox science could not address - that despair has no neural coordinates and health and wellness cannot be manufactured through chemistry or machine learning. She withdrew to a secluded Himalayan valley where medicine was whispered through silence, ritual, and communion with the natural world. There she discovered that recovery was not an act of conquest but of reconciliation - a restoration of resonance between the self and its environment.

Years later, as societies convulsed under an epidemic of psychic exhaustion - a collective weariness untouched by pharmacology - governments began legislating tranquility, prescribing mindfulness as if serenity could be decreed by law. The irony was tragic: compassion turned into a compliance form, and empathy became a performance metric on corporate dashboards.

In her final treatise, *The Anatomy of Wholeness*, Dr. Sen argued that civilization's deepest pathology was ideological - the delusion that health could exist apart from harmony. Her words, dismissed once as metaphysical indulgence, later ignited a quiet revolution in medical ethics.

5. Which of the following best captures the central theme of the passage?
 1. The rise of technology has revolutionised the field of medicine and improved emotional well-being.
 2. The pursuit of material well-being has been balanced with ethical values in modern healthcare.
 3. The mechanisation of medicine has led to increased longevity and empathetic healthcare.
 4. The obsession with scientific control has alienated humanity from the true essence of healing.
6. Select the real-life situation that best reflects the concerns raised in the passage.
 1. A hospital tracking doctors' empathy scores through automated patient satisfaction algorithms.

3. Statement 2
4. Statement 1
- 11.** From the options given below, identify the pair of adjectives in the following statement.
In the mellifluous, iridescent dusk, she moved deliberately and resolutely, allowing her equanimity and fortitude to guide her choices, as uncertainty gathered around her in the evening light.
1. equanimity / fortitude
 2. mellifluous / deliberately
 3. iridescent / mellifluous
 4. deliberately / resolutely
- 12.** Choose the appropriate idiom that is closest to the underlined segment in the following.
Do something on impulse, without prior deliberation.
1. at one's wit's end.
 2. by the seat of my pants.
 3. at the drop of a hat.
 4. at a good clip.
- 13.** Select an option to complete the given sentence.
_____ had the researchers completed their preliminary trials, _____ fresh complications emerged that altered the entire direction of the study.
1. Scarcely, before
 2. No sooner, that
 3. No sooner, than
 4. Hardly, that
- 14.** Complete the following sentence using the most appropriate words in all four blanks.
A discerning scholar presents a _____ argument supported by _____ evidence and maintains a/an _____ tone even when confronted with conflicting viewpoints during rigorous academic discussions and peer evaluations.
1. coherent / legitimate / decorous
 2. cogent / credible / respectful
 3. cohesive / verifiable / authoritative
 4. consistent / verifiable / civil
- 15.** Examine the following statement:
Despite the mounting criticism, the minister remained unfazed, addressing the press with calm assurance and a steady voice.
Choose the option that best uses the underlined word in a context similar to how it is used in the statement.
1. The manager remained unfazed as he had anticipated the problem and was resigned to it.
 2. The tourists remained unfazed by the beauty of the mountains and continued to complain about the cold.
 3. The actor remained unfazed by the effusive praise showered on her by the critics.
 4. The audience remained unfazed as the lights went out, exiting the hall in an orderly manner.
- Given below is a statement followed by four possible reasons numbered I and IV. Which of the four can explain the statement:

Logical Reasoning

1. Given below is a statement followed by four possible reasons numbered I and IV. Which of the four can explain the statement:
A major metropolitan city witnessed a significant drop in the number of people using public transport, despite the expansion of bus routes and services.

(I) The bus fares remained unchanged despite reduction in fuel prices
(II) The GST on two-wheelers and four-wheelers was reduced by the government.
(III) Entry of private vehicles into central business hubs was banned during rush hours.
(IV) Number of accidents involving public transport vehicles increased.
1. Only (I) and (II)
2. Only (I), (II) and (III)
3. Only (I), (II) and (IV)
4. Only (III)
2. Each of P, Q, R, S, T, U and V has an exam on a different day of a week starting from Monday and ending on Sunday of the same week. U has an exam on Thursday. Only one person has exam between P and U. T has an exam immediately after P. As many people have an exam before T as after S. Q has an exam immediately after V but not on Sunday.
How many people have an exam between R and V?
1. One
2. None
3. More than two
4. Two
3. In the following triads, each group of letters is related to the subsequent one following a certain logic. From the given options, select the one which follows the same logic.
FROM - RMFO - OFMR
CLAY - LYCA - ACYL
1. SPAN - PNSA - NSPA
2. BANG - AGBN-NBGA
3. PURE - UPER - RPEU
4. YEAR - ERAY - ARYE
4. The statement below is followed by two courses of actions, numbered I and II. Assume everything in the statement to be true.
Statement - A well-known food delivery company has received multiple complaints about late deliveries and poor food quality in the last quarter.
I. The company should review the food options of its partner restaurants.
II. The company should cap the number of orders each delivery person can take at peak hours.
Which course(s) of action logically follow on the basis of the information given in the statement.
1. Both I and II
2. Only II
3. Only I
4. Neither I nor II
5. A, B, C, D, E, F and G each scored a different marks in an exam and all marks were integers. Only three people scored more than F. Only G scored less than B. More than three people scored between G and D. C scored less than E and no one scored between C and E. If E scored

90, F scored 84 and the second lowest score was 71, which of the following may be the possible score of A?

- | | |
|------|------|
| 1.88 | 2.95 |
| 3.79 | 4.63 |

6. Two sets of four numbers are given below. In each set of four numbers, a certain mathematical operation on the first number results in the second number. Similarly, a certain mathematical operation on the second number results in the third number and so on.
Which of the options given below follow the same set of mathematical operations?

29 – 841 – 752 – 784

31 – 961 – 872 – 904

1. 34 – 1156 – 1067 – 1099
2. 37 – 1332 – 1243 – 1275
3. 43 – 1849 – 1758 – 1790
4. 45 – 2025 – 1936 – 1986

7. Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which one does not belong to the group?

- | | |
|---------|---------|
| 1. KQJM | 2. OULQ |
| 3. EKDG | 4. NTMP |

8. Ten people are sitting in two parallel rows containing 5 people each in such a way that there is equal distance between adjacent persons.

In row 1 - A, B, C, D and E are seated and all of them are facing south.

In row 2 - P, Q, R, S and T are seated and all of them are facing north.

Thus each person faces another person from the other row.

C sits at an extreme end of the row. Only two people sit between B and C. The person facing B sits to the immediate left of Q. Only one person sits between Q and P. A faces P. A sits to the immediate left of the person facing S. E sits second to the right of the person facing T.

Who faces B?

- | | |
|------|------|
| 1. R | 2. S |
| 3. Q | 4. T |

9. Anju starts from Lucknow and drives 18 km towards west. She then takes a right turn, drives 14 km, turns right again and drives 9 km.

She takes a final right turn, drives 2 km and stops at Point F. What is the shortest distance between Point F and Lucknow?

- | | |
|----------|----------|
| 1. 15 km | 2. 12 km |
| 3. 18 km | 4. 21 km |

10. Which of the following letter-number clusters will replace the question mark (?) in the given series to make it logically complete?

Y T Q 12 B W T 14 E Z W 31 H C Z 97 ?

- | | |
|--------------|--------------|
| 1. K F B 295 | 2. K C F 296 |
| 3. K F C 393 | 4. K E C 392 |

11. In a certain code language,

A + B means 'A is the mother of B'

A – B means 'A is the son of B'

A × B means 'A is the daughter of B'

A ÷ B means 'A is the brother of B'

Based on the above, how is P related to T if 'P – Q ÷ R × S + T' holds?

1. Sister's son

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2. Brother's son
3. Mother and Daughter
4. Daughter's son

- 12.** The question below is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and choose the appropriate answer.

A, B, C, D, E and F are sitting around a circular table, facing the centre. How many people sit between C and E when counted from the left of C?

Statements:

(I) A sits third to the right of E. B sits to the immediate right of E. C and F are immediate neighbours.

(II) D sits to the immediate right of B. Only two people sit between B and F. C sits second to the right of A.

1. Both statements I and II together are NOT sufficient to answer the question
2. Data in Statement II alone is sufficient to answer the question while data in statement I is not
3. Data in Statement I alone is sufficient to answer the question while data in statement II is not
4. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question.

- 13.** In a certain code where all codes are two lettered,
'marketing and sales strategy' is coded as 'zu li na ko'
'strategy for sales meet' is coded as 'dc zu sr li'
'meet and greet today' is coded as 'gq ko pe dc'

Following the same logic, what is the code for 'strategy and marketing meet'?

1. dc na gq ko
2. na zu dc ko
3. zu ko sr pe
4. ko dc sr li

- 14.** Read the given statements and conclusions. Take the given statements to be true even if they seem to be at variance from commonly known facts. Decide which conclusion(s) logically follow from the statements given below:

Statements: Some papers are curtains. No radio is a curtain. All jugs are papers.

Conclusion I: All jugs are curtains.

Conclusion II: Some papers are jugs.

Conclusion III: No radio is a jug.

1. Only conclusion (I) follows
2. Only conclusions (II) and (III) follow
3. Only conclusions (I) and (II) follow
4. Only conclusion (II) follows

- 15.** The numerical series given below follows a particular sequence. Fill in the missing elements.

16 23 37 65 121 ? 457 ?

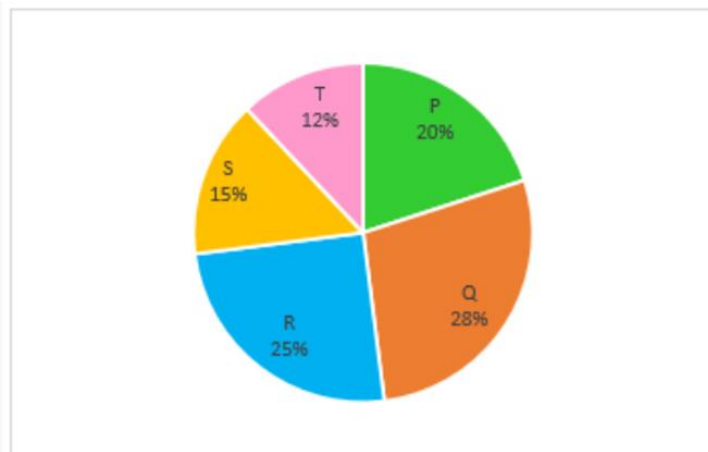
1. 213, 815
2. 226, 825
3. 233, 905
4. 234, 910

Quantitative ability

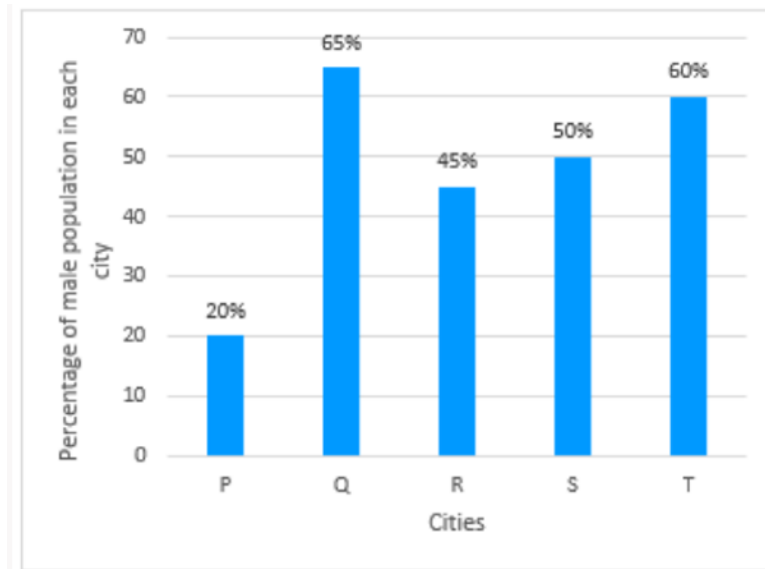
1. Let $A = \begin{bmatrix} x & 1 \\ 0 & 1 \end{bmatrix}$ where x is a real number, and $B = \begin{bmatrix} 2\sqrt{2} & 3 + \sqrt{2} \\ 0 & 1 \end{bmatrix}$. If $A^3 = B$, then x is equal to
1. $\sqrt{2}$
 2. $\frac{1}{\sqrt{2}}$
 3. $2\sqrt{2}$
 4. None of these options
2. Two rectangles are drawn on line segments of fixed widths. When the heights are 7 m and 8 m respectively, their areas sum up to 156 m^2 . But if these heights are 5 m and 7 m respectively, then their areas sum up to 123 m^2 . Find the sum of the areas of the squares (in m^2) drawn on the line segments.
1. 144
 2. 256
 3. 225
 4. 441
3. 25000 blood donors were registered with Red Cross in a city. The number of donors increased at the rate of 10% every 6 months. Find the total time (in years) at the end of which the total number of blood donors becomes 33275.
1. 2.5
 2. 3
 3. 1.5
 4. 2
4. Alice can complete a certain work in 24 days. Bob is twice as efficient as Alice. Both of them worked together for x days and stopped. The remaining work was completed by Carol working alone for $(x + 1)$ days. If Carol is 25 % less efficient than Bob, then the total number of days it took to complete the whole work was
1. 11
 2. 9
 3. 10
 4. 5
5. A bag consists of tokens whose labels are selected from all of the first n even natural numbers. The frequency of each label equals half the label itself. Then the variance of all the labels the bag is
1. $\frac{n^2 + 2n + 5}{9}$
 2. $\frac{2n^2 + 2n - 4}{9}$
 3. $\frac{2n^2 + n - 2}{9}$
 4. $\frac{2(2n + 1)}{3}$
6. If $2y + z > 0$, $2z > y$, and $z < 3$, find the range of possible values of $(y + z)$.
1. $0 < y + z \leq 8$
 2. $-1.5 < y + z < 9$
 3. $0 < y + z < 9$
 4. $1 \leq y + z \leq 8$
7. Let $f: \mathbb{R} \rightarrow \mathbb{R}$ be a function such that $f'(x) = (x - 2024)^3(x - 2025)(x - 2026)^2$ for all $x \in \mathbb{R}$. Let $g: \mathbb{R} \rightarrow (0, \infty)$ be a function such that $g(x) = \sqrt{f(x)}$ for all $x \in \mathbb{R}$. Then the number of points at which $g(x)$ has a local maximum is:
1. 3
 2. 2
 3. 1
 4. 4

8. Let $h(x) = \min\{|\sin x|, |\cos x|\}$, for all numbers x . Let S be the set of points in $(0, \frac{\pi}{2})$ where $h(x)$ is not differentiable. Then the cardinality of S is:
1. 3
 2. 1
 3. 0
 4. 2
9. Let b and c be two real numbers such that the numbers 3, b , c are in a geometric progression. For the matrix $A = \begin{bmatrix} 1 & 1 & 1 \\ 3 & b & c \\ 9 & b^2 & c^2 \end{bmatrix}$, if $\det |A| = 162$, then the value of c is
1. 48
 2. 54
 3. 12
 4. 27
10. You are given three positive numbers such that
- i) A is the sum of the first two numbers.
 - ii) B is the sum of the first two numbers taken away from the third number.
 - iii) C is the sum of all these numbers.
 - iv) $\frac{A}{B} = \frac{B}{C}$
- Select the correct option from below:
1. The third number is equal to thrice the sum of the first two numbers
 2. The third number is equal to twice the sum of the first two numbers
 3. The sum of the first two numbers is equal to thrice the third number
 4. The sum of the first two numbers is equal to twice the third number
11. In how many ways can three letters (not necessarily distinct from one another) be selected from the letters of the word PARALLELOGRAMS?
1. 110
 2. 2184
 3. 182
 4. 364

The state of Panchagarh has 5 cities, whose population contributions are shown in the pie chart below



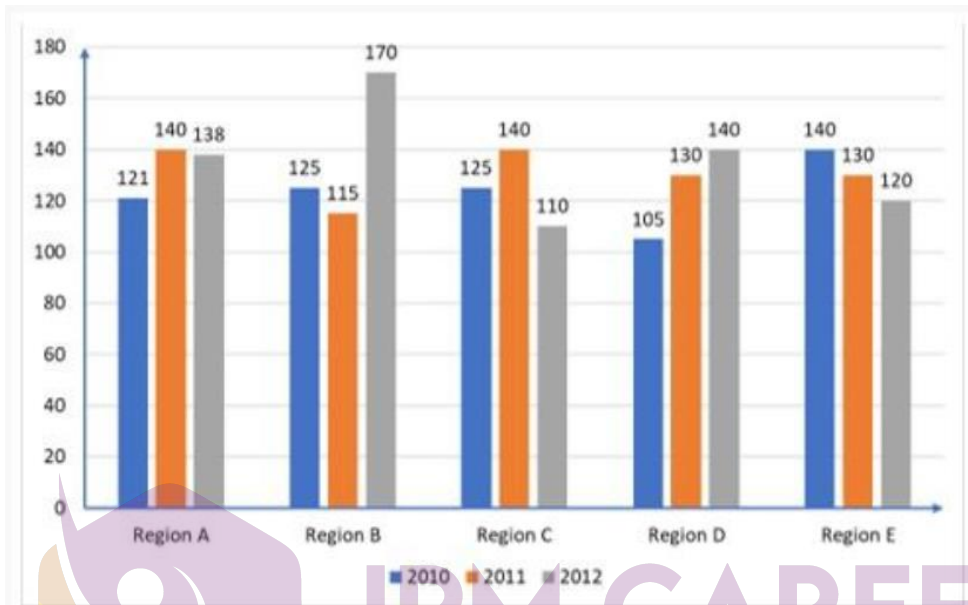
The bar graph below shows the percentage of males in each city of Panchagarh in 2016. These percentages do not change over time



12. Assume the population of Panchagarh in 2016 was 1.5 lakh. In 2017, the population of city P increased by 15%, while that of city S increased by 20%. What is the ratio of the male population of city P to that of city S in 2017?
 1. 69 : 130
 2. 23 : 45
 3. 121 : 101
 4. 153 : 85
13. Assume the population of city R was 96000 in 2016. Then, in percentage terms, by how much was it more than the male population of city T?
 1. 168.3%
 2. 247.2%
 3. 312.7%
 4. 276.5%
14. Assume the total population of Panchagarh state in 2016 is 350000. Then find the average female population of cities P, Q, and S in 2016.
 1. 45,750
 2. 38,850
 3. 58,275
 4. 35,940
15. Assume the population of Panchagarh in 2016 is 450000. Then the combined non-male population of cities P, Q and T is approximately what percent more/less than the combined male populations of cities R, S and T?
 1. 18%, Less
 2. 21%, Less
 3. 18%, More
 4. 21%, More
16. Which of the following functions is a one-to-one and onto function from $\mathbb{R}$ to $\mathbb{R}$?
 1. $\ln(e^{|x|})$
 2. $e^{\ln(|x|)}$
 3. $\ln(e^x)$
 4. $e^{\ln(x)}$
17. Let $f: \left(0, \frac{6}{5}\right) \rightarrow \mathbb{R}$ & $g: \left(0, \frac{6}{5}\right) \rightarrow \mathbb{R}$ be functions defined by $f(x) = [x^2]$ and $g(x) = (|x - 1| + |x - 2|)f(x)$. Here $[a]$ = the highest integer $\leq a$. Then
 1. f is discontinuous at exactly two points in $\left(0, \frac{6}{5}\right)$
 2. g is not differentiable at exactly one point in $\left(0, \frac{6}{5}\right)$
 3. g is not differentiable at exactly two point in $\left(0, \frac{6}{5}\right)$

4. f is discontinuous at exactly three points in $\left(0, \frac{6}{5}\right)$
18. Let A, B, and C be the three mutually independent events with their probabilities equal to x , y and z respectively. Then the probability that exactly two of these events occur is
1. $1 - xy - xz - yz + 3xyz$
 2. $1 - xyz$
 3. $xy + yz + zx$
 4. $xy + yz + zx - 3xyz$

The following graph shows the annual tourist arrivals (in thousands), both foreign and domestic, across five tourist regions (A to E) from 2010 to 2012.



19. Foreign visitors to Region B form 15%, 20% and 25% of the tourist visits during 2010, 2011 and 2012 respectively. Assume that each foreign tourist spends ₹ 7,000, while each domestic tourist spends ₹ 3,000. What is the total revenue (in ₹ crores) from tourist spends during 2010-2012?
1. 152.8
 2. 410
 3. 164.3
 4. 156.7
20. In 2010, the total spending per tourist in Region E was ₹6,000, and it increased by 10% in each successive year, while arrivals decreased as per the graph. What was the total spending (in ₹ crore) from Region E across 2010 - 2012?
1. 234.00
 2. 245.09
 3. 256.92
 4. 233.12
21. In 2012, if 10% of visitors in Region E were foreign tourists, then how many domestic tourists (in thousands) visited Region E in that year?
1. 108
 2. 106
 3. 112
 4. 126
22. In which region was the highest average tourist arrival recorded during 2010 – 2012?
1. A
 2. D
 3. C
 4. B
23. Let A, B and C be three sets. Then $A \cup B - C$ is not equal to
1. $((A^c \cup C) \cap (B^c \cup C))^c$

2. $(A - C) \cup (B - C)$
 3. $((A - C)^c \cap (B - C)^c)^c$
 4. $(A^c \cup C) \cup (B^c \cup C)$
- 24.** A sportsperson could be an expert in badminton and / or squash. Given that someone is a squash expert, the probability that they are expert at badminton as well is 0.8. There are twice as many badminton experts as there are squash experts. Given that Saina is a badminton expert, what is the likelihood that she is an expert in squash?
 1. 0.16 2. 0.4
 3. 0.8 4. 0.2
- 25.** The roots of the equation $\sqrt{2}x^2 - \frac{3}{\sqrt{2}}x + c = 0$ are p and $2p$.
 Let $a > 0$, and one root of the equation $a^2x^2 + 12a - 7 = 0$ is $64(p^6 + c^{12})$.
 What is the value of a ?
 1. $\frac{3}{4}$ 2. $\frac{1}{4}$
 3. $\frac{1}{32}$ 4. $\frac{1}{2}$
- 26.** The centroid of a triangle with vertices $(2a, b), (-b, a)$ and $(b, 3a)$ is $(4, 11)$. The area of the triangle is _____ square units.
 1. 88 2. 99
 3. 16 4. 121
- 27.** Two positive integers m and n satisfy $\text{HCF}(m, n) = 14$ and $\text{LCM}(m, n) = 168$. If $m < n$ and m divides 84, what is the maximum possible value of m ?
 1. 14 2. 42
 3. 28 4. 56
- 28.** The proportions of gold in three alloys are 40%, 50% and 80% respectively. These alloys are mixed in certain proportions to obtain 30 kg of a new alloy, which has 55% gold. If the amount of the first alloy is 9 kg, what is the amount in kg of the third alloy used?
 1. 7 2. 8
 3. 12.5 4. 9
- 29.** Let $A = \{a_1, a_2, \dots, a_i, \dots\}$ be an arithmetic progression, and let $B = \{b_1, b_2, \dots, b_i, \dots\}$ be a geometric progression.
 The common difference for A is 2.
 The common ratio for B is 0.2, and $b_1 = 0.8$
 The infinite sum of the products $a_i b_i$ is 1, where $i = 1, 2, 3, \dots$
 What is a_1 ?
 1. $\frac{1}{2}$ 2. $\frac{3}{4}$
 3. $\frac{1}{4}$ 4. $\frac{2}{3}$
- 30.** In Saroja's sari shop, the marked price of each sari is $x\%$ above the cost of its procurement. She sells each sari after a discount of 25%. In addition, if someone buys a dozen saris, she offers an extra sari for free, and still makes a profit of 8% over their cost of procurement. If Saroja had sold the saris without discounting, but with the offer of an extra saree for every dozen sold, then her profit percentage would have been:
 1. 42 2. 46
 3. 54 4. 44

Verbal Reasoning

1. (3) 2. (2) 3. (1) 4. (3) 5. (4) 6. (1) 7. (2) 8. (2) 9. (2) 10. (3)
11. (3) 12. (3) 13. (3) 14. (2) 15. (4)

Logical Reasoning

1. (3) 2. (4) 3. (2) 4. (1) 5. (3) 6. (1) 7. (2) 8. (4) 9. (1) 10. (3)
11. (2) 12. (2) 13. (2) 14. (4) 15. (3)

Quantitative Ability

1. (1) 2. (3) 3. (3) 4. (1) 5. (2) 6. (3) 7. (3) 8. (2) 9. (3) 10. (1)
11. (1) 12. (2) 13. (2) 14. (2) 15. (3) 16. (3) 17. (2) 18. (4) 19. (4) 20. (3)
21. (1) 22. (4) 23. (4) 24. (2) 25. (4) 26. (2) 27. (2) 28. (2) 29. (1) 30. (4)



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