

Sainik School

Entrance Exam (Class IX)

SOLVED PAPER 2018

Instructions

1. This question paper contains 25 questions.
2. Each question carries 2 Marks.
3. The candidate is expected to attempt all questions.

Paper II

Directions (Q.Nos. 126-129) Choose the letters group that best represents a relationship similar to the one expressed in the original pair of letters groups :

- 126.** WINTER: IWTNRE:: LACSAP:?
(a) PASCAL (b) SPLACA
(c) ALSCPA (d) LACSPA
- 127.** GDLM: IBNK :: XSOH : ?
(a) ZQQF (b) WTMO
(c) APQF (d) ZQLF
- 128.** TOW is to MJP as ZHN is to
(a) SAG (b) GSA
(c) YGM (d) TEG
- 129.** WEIGHT is related to KILOGRAM in the same way as DISTANCE is related to
(a) GRAM (b) POUND
(c) LENGTH (d) KILOMETER

Directions (Q.Nos. 130-131) Which number completes the second pair in the same way as the first pair?

- 130.** 26: 5:: 65 : ?
(a) 6 (b) 7 (c) 8 (d) 9
- 131.** 16 : 56 :: 36 : ?
(a) 96 (b) 112 (c) 118 (d) 128

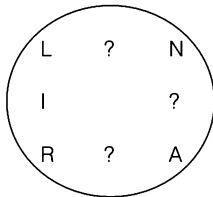
Directions (Q. Nos. 132-135) In the given series, find the next / missing term.

- 132.** AT, BS, CR, DQ, ?
(a) EP (b) FP
(c) ED (d) EN
- 133.** 4, 9, 16, 25, ?, 49
(a) 50 (b) 36
(c) 64 (d) 39
- 134.** 0, 1, ?, 27, 64
(a) 16 (b) 32
(c) 4 (d) 8
- 135.** A 5, C 10, E 15, G 20, ?
(a) H 30 (b) I 30
(c) I 25 (d) H 25
- 136.** Insert a letter which completes both the words given below :

			C		
			A		
			R		
B	A	?	C	H	

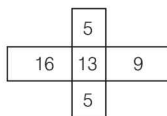
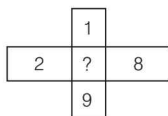
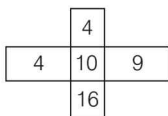
- (a) T (b) K
(c) V (d) L

137. Insert the missing terms in the figure, so that the word formed is the name of a country when read clockwise direction.



- (a) SAA (b) APR
(c) SAK (d) PLC

138. Find the number that replaces the question mark.



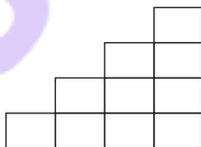
- (a) 12 (b) 6
(c) 5 (d) 7

139. In a class of 30 students, swati's rank is 11 th from the top, what is her rank from the bottom?
(a) 19th (b) 20th
(c) 22nd (d) 21st

140. Ritu walks 50 m towards East, then turns to her right and walks 50 m, now she turns left and walks another 50m, now again she turns left and walks another 50 m. In which direction is she from the starting point?
(a) East
(b) North
(c) North-East
(d) South -West

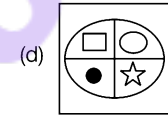
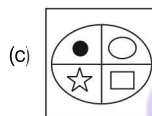
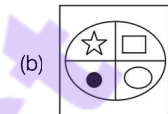
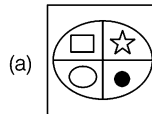
141. Find the fourth proportional to 3,7 and 9,
(a) 23
(b) 27
(c) 21
(d) None of the above

142. Count the number of squares in the given figure



- (a) 14 (b) 13
(c) 10 (d) None of these

143. Choose the figure, which is different from others?



144. What is the sequence of the following when arranged in a dictionary?

1. Telegraph 2. Telephone
3. Teleprint 4. Telemetry

5. Telepathy

- (a) 14532 (b) 14253
(c) 14523 (d) 14325

145. CLOCK is 42145, LEAN is 2068.

CARE is 4690, then NECKLACE is

- (a) 80546240 (b) 6054842
(c) 80452640 (d) 50842604

146. Which among the following year is a leap year?

- (a) 2500 (b) 2800
(c) 2600 (d) 2700

Directions (Q. Nos. 147 and 148) In each of the following questions, find the word which can not be made from the letters of the given word.

147. CARPENTER

- (a) NECTAR (b) CARPET
(c) PAINTER (d) REPENT

148. REASONABLE

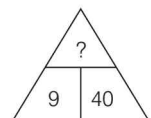
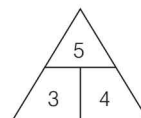
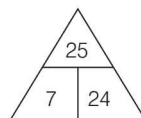
- (a) BRAIN (b) BONES
(c) NOBLE (d) ARSON

149. If 'x' stands for 'x', 'y' stands for '+', 'z' stands for '-', then what is the value of

$$7 \div 21 \times 81 + 9 - 3 \times 14$$

- (a) 21 (b) 24 (c) 27 (d) 28

150. Determine the term that would replace the question mark .



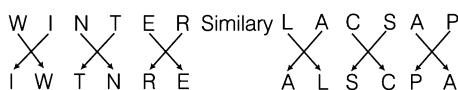
- (a) 36 (b) 41
(c) 35 (d) 45

Answer

126	(c)	127	(a)	128	(a)	129	(d)	130	(c)	131	(a)	132	(a)	133	(b)	134	(d)	135	(c)
136	(a)	137	(b)	138	(c)	139	(b)	140	(a)	141	(c)	142	(b)	143	(d)	144	(c)	145	(c)
146	(b)	147	(c)	148	(a)	149	(*)	150	(b)										

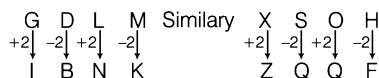
Answers

126. As,



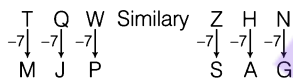
∴ ? = ALSCPA

127. As,



∴ ? = ZQQF

128. As,



∴ ? = SAG

129. As, Kilogram is the measurement unit of weight, similarly kilometer is the measurement unit of distance.

130. As, $26 - 1 = 25$

and, $\sqrt{25} = 5$

Similarly, $65 - 1 = 64$

and, $\sqrt{64} = 8$

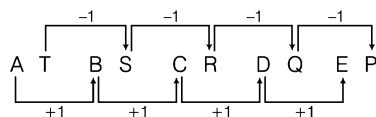
131. As, $16^2 = 256$

Now, $2\boxed{56} \rightarrow 56$ (last two digits)

Similarly, $36^2 = 1296$

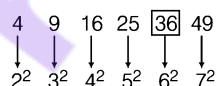
Now, $12\boxed{96} \rightarrow 96$ (last two digits)

132. The pattern is as follows



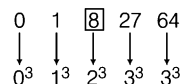
∴ ? = EP

133. The pattern is as follows



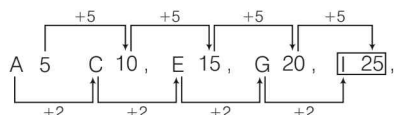
∴ ? = 36

134. The pattern is as follows



∴ ? = 8

135. The pattern is as follows



∴ ? = I 25

136. Letter T will complete both the words as BATCH and CA RT

137. S R I L A N K A

So, the missing letters are S, A and K

138. In first figure

$$(4 \times 16) + (4 \times 9) = 64 + 36 = 100$$

Now, $\sqrt{100} = 10$

In third figure,

$$(16 \times 9) + (5 \times 5) = 144 + 25 = 169$$

Now, $\sqrt{169} = 13$

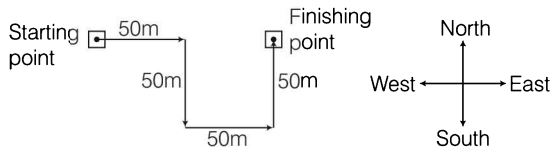
Similarly, In second figure

$$(2 \times 8) + (1 \times 9) = 16 + 9 = 25$$

Now, $\sqrt{25} = 5$

- 139.** Swati's rank from top = 11th
 $\therefore$ Number of students after swati
 $= 30 - 11 = 19$
 $\therefore$ Swati's rank from the bottom
 $= 19 + 1 = 20$

- 140.** According to the question, the direction diagram is as follows



It is clear from the above diagram that Ritu is in East direction from the starting point in the end.

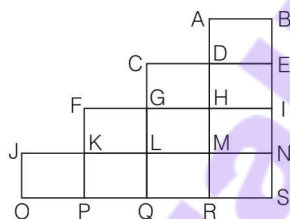
- 141.** Let the fourth proportional = x

$$3 : 7 :: 9 : x$$

$$\Rightarrow \frac{3}{7} = \frac{9}{x}$$

$$\therefore \text{Fourth proportional } x = \frac{9 \times 7}{3} = 21$$

- 142.** The figure can be represented as



The above figure has following 13 squares.

ABED, CDHG, DEIH, FGLK, GHML, HINM, JKPO, KLQP, LMRQ, MNSR, CENL, FHRP and GISQ

- 143.** Except figure (d) in all other figures the square and black dot are diagonally opposite to each other but they are adjacent in figure (d). Hence, figure (d) is different from others.

- 144.** The arrangement of given words according to dictionary is as follows

Telegraph $\longrightarrow$ Telemetry $\longrightarrow$ Telepathy $\longrightarrow$
 Telephone $\longrightarrow$ Teleprinter ie 1, 4, 5, 2, 3

- 145.** As,

C	L	O	C	K	L	E	A	N
4	2	1	4	5	2	0	6	8

and,

C	A	R	E
4	6	9	0

Similarly,

N	E	C	K	L	A	C	E
8	0	4	5	2	6	4	0

- 146.** As we know that Leap year in the form of a century are exactly divisible by 400. So, among the given alternatives only 2800 is a leap year.

- 147.** The word PAINTER can not be made from the letters of the given word because the letter I is not present in the given word CARPENTER.

- 148.** The word BRAIN can not be made from the letters of the given word because the letter I is not present in the given word REASONABLE

- 150.** In first figure, $25 + 24 = 49$

and $\sqrt{49} = 7$

In second figure $5 + 4 = 9$ and $\sqrt{9} = 3$

Similarly in second figure

$$? + 40 = 9^2$$

$$\Rightarrow ? = 81 - 40$$

$$\therefore ? = 41$$