Sainik School

Entrance Exam (Class 6)

Solved Paper 2018

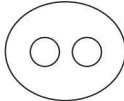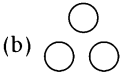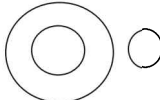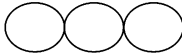Time : 30 min   Marks : 50

Instructions

1. This question paper contains 25 questions of 2 marks each.
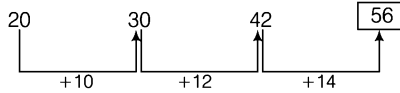2. The candidate is expected to attempt all questions.

Paper 2

Intelligence Test

1. Find the missing number in the number series given below

   20, 30, 42, ?

   (a) 64   (b) 56   (c) 62   (d) 54

2. Victory is to Joy as …… is to Sorrow.

   (a) Defeat   (b) Depression
   (c) Loneliness   (d) Cry

3. Find the missing number that has same relation to 289 as 13 has to 169.

   169 : 13 :: 289 : ?

   (a) 19   (b) 17   (c) 27   (d) 23

4. If TRAIN is written as WUDLQ, then BUS would be written as …… .

   (a) EXU   (b) DWU
   (c) EXV   (d) VXE

5. If 'Flow' is related to 'River', then 'Stagnant' is related to …… .

   (a) Pool   (b) Rain
   (c) Stream   (d) Canal

6. Choose the word which is least like the other words in the group.

   (a) Ladder   (b) Staircase
   (c) Bridge   (d) Escalator

7. If we arrange the given words in alphabetical order, which word would come at the second place, choose the correct alternative.

   (a) Plane   (b) Plain
   (c) Plenty   (d) Player

8. Choose the alternative that resembles the water image of the given word below

   A1M3b

   (a) ∀1W3P   (b) ∀I W3P
   (c) ∀IW3P   (d) ∀IWƐP

9. Choose the word which is least like the other words in the group.

   (a) Eyes   (b) Ear
   (c) Hand   (d) Scarf

10. Choose the alternative that will continue the number series below

    2, 3, 5, 7, 11, 13, ?

    (a) 15   (b) 19
    (c) 17   (d) 21

11. Which of the following diagram indicates the best relation between Country, Nepal and India

12. Choose the alternative that will continue the number series below

5, 11, 19, 29, ?, 55

(a) 39   (b) 41   (c) 37   (d) 43

13. A 'Fish' is to 'Gills', then a 'Man' is to ....

(a) Ear   (b) Eye
(c) Lungs   (d) Nose

14. Which figure among the five alternatives (a), (b), (c), (d) and e would replace the question mark in figure '4'?

Question Figures

1   2   3   4

Answer Figures

(a)   (b)   (c)   (d)   (e)

15. Choose the word which is least like the other words in the group.

(a) Sun   (b) Planets
(c) Stars   (d) Satellites

16. If Maya is the only daughter of Richa's grandmother's brother, how is Maya's daughter related to Richa?

(a) Niece   (b) Cousin   (c) Aunt   (d) Mother

17. O, P, Q, R, S and T are standing on a bench according to their height. P is taller than O but shorter than S. Only S is taller than T. R is shorter than P but taller than Q. Who is the shortest?

(a) O   (b) Q
(c) P   (d) Cannot be said

18. If '+' means '÷', '×' means '−', '÷' means '+' and '−' means '×', then what would be the answer of the equation?

$$16 \div 8 \times 6 - 2 + 12 = ?$$

(a) 22   (b) 24   (c) 23   (d) 20

19. Count the number of triangles present in the given figure.

(a) 16   (b) 17
(c) 18   (d) 19

20. If 'Dog' is to 'Rabies' then 'Mosquito' is to ......

(a) Plague   (b) Death
(c) Malaria   (d) Sting

21. It is 3 O' clock in a watch and it is rotated by 10° in a manner such that if the minute hand points towards the North-East, then hour hand will point towards which direction?

(a) South   (b) South-West
(c) North-West   (d) South-East

22. 'Love' is to 'Hate', then 'Friend' is to ....

(a) Trust   (b) Companion
(c) Enemy   (d) Desire

23. If the given alpha-numeric series is seen in mirror, which alternative would resemble its mirror image?

ANS43Q12

(a) ꓯNƧ4ϘI3   (b) ƧIϘƐ4ƧИA
(c) ƧИAƐ4Ϙ3Ƨ   (d) I2W4ƐANƧ

24. Given that A and B are a married couple. If X and Y are brothers and X is the brother of A. How is Y related to B?

(a) Brother-in-law
(b) Brother
(c) Cousin
(d) None of the above

25. If '+' means '−', '−' means '×', '×' means '÷' and '÷' means '+', then what would be the answer of the equation?

$$15 \times 5 \div 10 + 5 - 3 = ?$$

(a) 9.5   (b) 0
(c) −2   (d) 24

Answers

1	(b)	2	(a)	3	(b)	4	(c)	5	(a)	6	(c)	7	(a)	8	(c)	9	(d)	10	(c)
11	(a)	12	(b)	13	(c)	14	(a)	15	(c)	16	(b)	17	(d)	18	(c)	19	(c)	20	(c)
21	(d)	22	(c)	23	(b)	24	(a)	25	(c)										

Hints and Solutions

1. The series follows below pattern

20   30   42   56

+10   +12   +14

$\therefore$? = 56

2. As, 'Joy' is the outcome of 'Victory', similarly 'Sorrow' is the outcome of 'Defeat'.

3. As, $\sqrt{169} = 13$
Similarly, $\sqrt{289} = \boxed{17}$

4. As,   Similarly,

T R A I N   B U S
+3 +3 +3 +3 +3   +3 +3 +3
W U D L Q $\boxed{\text{E X V}}$

5. In river, water is in flowing state. Similarly, in pool, it is in stagnant state.

6. All except bridge are used for up and down movement.

7. The alphabetical order of words is as follows.
Plain → Plane → Player → Plenty
$\therefore$ Word at second place is Plane.

8. Option (c) represents the correct water image of the given combination.

9. Except scarf, all others are different parts of a body.

10. The given series consists of continuous prime numbers. Hence, 17 will come in place of question mark (?).

11.
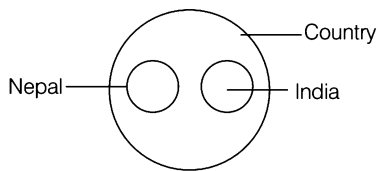
India and Nepal both are different countries.

12. The series follows below pattern

5   11   19   29   41   55

+6   +8   +10   +12   +14
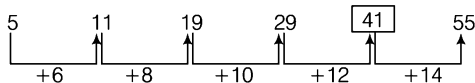
$\therefore$? = 41

13. Gills are the respiratory organ found in fish Similarly, lungs are the respiratory organ found in man.

14. In each successive figure a slant line (firstly, left slant line, then right slant line) is added in clockwise direction. Hence, figure in option (a) will replace the question marks (?).

15. Except stars, all others are countable.

16. The relation diagram is as follows.
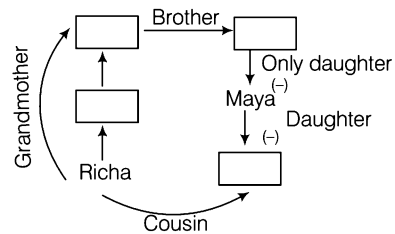
It is clear from the above diagram that Maya's daughter is the cousin of Richa.

17. According to the question,
S > T > P > O   ...(i)
P > R > Q   ...(ii)
Either O or Q is shortest.
Hence, from the given information we cannot find the shortest person.
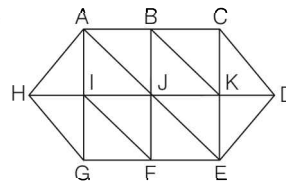
18. $? = 16 \div 8 \times 6 - 2 + 12$
     ↓   ↓   ↓   ↓
$? = 16 + 8 - 6 \times 2 \div 12$
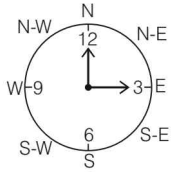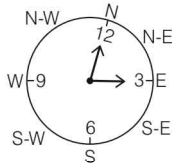$? = 16 + 8 - 6 \times \dfrac{2}{12}$
$? = 16 + 8 - 1 = 23$

19.

$\therefore$ Triangles = $\triangle$AIH, $\triangle$AIJ, $\triangle$ABJ, $\triangle$BJK, $\triangle$BCK, $\triangle$CKD, $\triangle$HIG, $\triangle$IGF, $\triangle$IJF, $\triangle$JFE, $\triangle$JKE, $\triangle$KED, $\triangle$AHG, $\triangle$AHJ, $\triangle$CDE, $\triangle$EDJ, $\triangle$ACE and $\triangle$AGE = 18

20. As, rabies is caused by dog. Similarly, malaria is caused by mosquito.

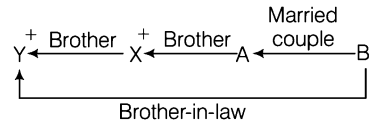**21.** Original Position,   After Rotating

Clearly, hour points towords South-East direction.

22. As, love is opposite of hate.
Similarly, friend is opposite of enemy.

23. Option (b) represents the correct mirror image of the given combination.

24. The relation diagram is as follows

Clearly, Y is the brother-in-law of B.

25. $? = 15 \times 5 \div 10 + 5 - 3$
$$\quad\;\; \downarrow\; \downarrow\;\; \downarrow\; \downarrow$$
$= 15 \div 5 + 10 - 5 \times 3$
$= 3 + 10 - 15$
$= 13 - 15 = -2$