

Class-IX

SECTION-A : SCIENCE

1. Which of the following facts about fertilisers is true?
(A) They are naturally produced (B) They are rich in a particular nutrient
(C) They are made of decomposed matter (D) They are non-polluting

Ans. (B)

2. What is the chemical name for vinegar, which we all have in our kitchens?
(A) Citric Acid (B) Malic Acid (C) Formic Acid (D) Acetic Acid

Ans. (D)

3. What is the full form of CNG?
(A) Common Natural Gas (B) Chemical Natural Gas
(C) Compressed Natural Gas (D) Cooled Natural Gas

Ans. (C)

4. How does water help in stopping a fire?
(A) Cuts off supply of oxygen (B) Lowers the temperature
(C) Cuts off supply of fuel (D) All of these

Ans. (D)

5. Which term is used to describe birds which go from one place to other depending on seasons?
(A) Traveling birds (B) Migratory birds (C) Nomadic birds (D) Inconsistent birds

Ans. (B)

6. What is the fertilised egg called?
(A) Foetus (B) Ova (C) Baby (D) Zygote

Ans. (D)

7. Which virus causes AIDS?
(A) HIV (B) E. Coli. (C) Vibrio Cholerae (D) Rotavirus

Ans. (A)

8. Why are our bodies not crushed by the pressure of the atmosphere?
(A) The pressure is very small
(B) Our internal pressure is equal to atmospheric pressure
(C) Our bones are very strong
(D) The atmospheric pressure keeps changing

Ans. (B)

9. What is the unit of loudness of sound?
 (A) Decibel (B) metre per sec (C) Hertz per sec (D) Decibel per sec

Ans. (A)

10. A glass rod is rubbed with silk. What can you tell about the charge on the glass rod?
 (A) Neutral (B) Negative
 (C) Positive (D) Can be both positive and negative

Ans. (C)

SECTION-B: MENTAL ABILITY

11. In the question, you are given a combination of letters followed by four alternatives (A), (B), (C) and (D). Choose the alternative which most closely resembles the water-image of the given combination.

QUARREL

- (A) QUVBVEG (B) JERYAUQ (C) QUVBVEG (D) QUARREL

Ans. (A)

12. The next term in the sequence 1, 3, 6, 11, 20, 37, ?

- (A) 65 (B) 67 (C) 70 (D) 60

Ans. (C)

13. If a certain code PERINATH is written as QFQHOBGS and POLE as QPKD, how will SYNDROME be written in that code ?

- (A) RXONQNNF (B) TZODQNLD (C) TZMCSPKD (D) TZMCSPLD

Ans. (D)

14. In the following question, there are two numbers to the left of the sign :: which are connected in some way. The same relationship is between the third number and one of the four alternatives given. Find the correct alternative.

11 : 17 :: 19 : ?

- (A) 29 (B) 27 (C) 23 (D) 21

Ans. (A)

15. Count each 1 in the following sequence of numbers that is immediately followed by 2, if 2 is not immediately followed by 3. How many such 1's are there?

1 2 1 3 4 5 1 2 3 5 2 1 2 6 1 4 5 1 1 2 4 1 2 3 2 1 7 5 2 1 2 5

- (A) 2 (B) 4 (C) 5 (D) 7

Ans. (B)

16. In a certain code STATION is denoted by URCKMP then BRING is denoted in the same code by

- (A) CSKLH (B) DSGLH (C) KSKPH (D) None of these

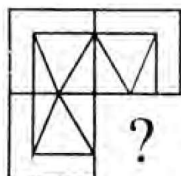
Ans. (D)

17. If at 12'O clock, minute hand and hour hand are facing towards North, then in which direction the minute hand is facing at 4 : 40?

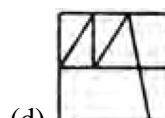
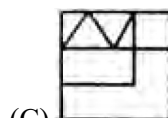
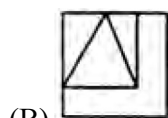
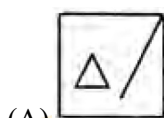
- (A) 30° West of South (B) 60° West of South
 (C) 30° East of South (D) 60° East of South

Ans. (B)

18. In the given question, a part of the figure is missing. Find out from the given options (1, 2, 3, 4) the right figure to fit in the missing figure.



(X)



Ans. (B)

19. If $2 + 2 = 8$, $3 + 5 = 24$, $2 + 5 = 14$, $3 + 4 = 21$ then $5 + 7$ is:

- (A) 50 (B) 60 (C) 70 (D) 80

Ans. (B)

20. Find the missing term (?)

$$11\frac{1}{9}, 12\frac{1}{2}, 14\frac{2}{7}, 16\frac{2}{3} ?$$

- (A) $8\frac{1}{3}$ (B) $19\frac{1}{2}$ (C) 20 (D) $22\frac{1}{3}$

Ans. (C)

SECTION-C : Mathematics

21. If $4^{-x} = 16$, then x is

- (A) 2 (B) -2 (C) 0 (D) 4

Ans. (B)

22. The value of $\sqrt[3]{343} \times \sqrt[3]{-64}$ is

- (A) 28 (B) -28 (C) 18 (d) -18

Ans. (B)

23. The dimensions of a photograph are $30\text{ cm} \times 20\text{ cm}$. Find the length of the wooden frame needed to frame the photograph

- (A) 600 cm (B) 50 cm (C) 100 cm (D) 500 cm

Ans. (C)

24. The cube root of 27^2 is

- (A) 27 (B) 9 (C) 3 (D) None

Ans. (B)

25. Square of an even number is

- (A) An even number (B) An odd number
(C) Sometimes even sometimes odd (D) None of these

Ans. (A)

26. By what number should $1\frac{2}{3}$ be divided to get $\frac{2}{3}$?

- (A) $2\frac{2}{3}$ (B) $1\frac{2}{3}$ (C) $\frac{4}{9}$ (D) $2\frac{1}{2}$

Ans. (D)

27. In the following options, the measures of three angles are given. Which of these can form a triangle?

- (A) $45^\circ, 61^\circ, 73^\circ$ (B) $63^\circ, 37^\circ, 80^\circ$ (C) $30^\circ, 20^\circ, 125^\circ$ (D) $59^\circ, 72^\circ, 61^\circ$

Ans. (B)

28. How many metres of a carpet 60 cm wide will be required to cover the floor of a room which is 18 metres long and 15 metres broad?

- (A) 320 m (B) 360 m (C) 420 m (D) 450 m

Ans. (D)

29. The given rational numbers are $-\frac{2}{3}, \frac{7}{8}, -\frac{4}{5}, \frac{2}{9}$. The sum of the greatest and the smallest rational number is

- (A) $\frac{47}{63}$ (B) $\frac{3}{40}$ (C) $-\frac{22}{15}$ (D) $-\frac{12}{27}$

Ans. (B)

30. Write $3^{12}, 2^{15}, 5^6$ in the ascending order.

- (A) $5^6, 2^{15}, 3^{12}$ (B) $5^6, 3^{12}, 2^{15}$ (C) $2^{15}, 5^6, 3^{12}$ (D) $2^{15}, 3^{12}, 5^6$

Ans. (A)