Centre for Excellence

12/102, First Floor, Aditya Complex, Preet Vihar Community Centre, New Delhi-110092
☎ (011) 2252 7266, 09968761561, www.aimstalent.com

ALL INDIA

MATHS SCIENCE TALENT EXAMINATION
CLASS VIII

Total Marks: 25   **Time Allowed: 30 Minutes**

1. 2, 6, 12, 20, 30, 42, 56, _ ?
   (A) 70   (B) 72
   (C) 60   (D) 64

2. E is the son of A. D is the son of B. E is married to C. C is B's daughter. How is D related to E?
   (A) Brother   (B) Brother-in-law
   (C) Uncle   (D) none of these

3. Monk : Monastery :: ?
   (A) Noble : House   (B) Nun : Convent
   (C) Lion : Hole   (D) none of these

4. How many numbers from 1 to 100 are there each of which is not only exactly divisible by 4 but also does not have 4 as a digit?
   (A) 7   (B) 17
   (C) 18   (D) none of these

5. How many even numbers are there in the following sequence of numbers which are immediately followed by an odd number as well as immediately preceded by an even number?
   8 6 7 6 8 9 3 2 7 5 3 4 2 2 3 5 5 2 2 8 1 1 9
   (A) 5   (B) 3   (C) 4   (D) none

6. The difference between the C. I. and S. I. on a certain sum for 2 years at 10 % p.a. is Rs. 300. Find the sum.
   (A) Rs. 4,000   (B) Rs. 35,000
   (C) Rs. 30,000   (D) Rs. 45,000

7. A boat goes 60 km downstream in 5 hours and 24 km upstream in 3 hours. Find the speed of the current.
   (A) 10 kmph   (B) 6 kmph
   (C) 4 kmph   (D) 2 kmph

8. Nitish can do 1/4 of a work in 10 days, Madhur can do 40% of the same work in 40 days and Kshitij can do 1/3 of the same work in 13 days. Who will complete the work first?
   (A) Nitish   (B) Madhur
   (C) Kshitij   (D) data insufficient

9. $5^0 \div 5^3 =$ ___.
   (A) 0   (B) 1

(C) 5^3 (D) 5^{-3}

10. If water is pouring into a cuboidal container having volume of 216 m^3, at the rate of 30 litres per minute, find how much time it will take to fill the container?
(A) 7.2 minutes   (B) 60 minutes
(C) 90 hr   (D) 120 hr

11. $5\sqrt{3} - 3\sqrt{12} + 2\sqrt{75} =$
(A) $9\sqrt{3}$ (B) $2\sqrt{3}$
(C) $6\sqrt{3}$ (D) $3\sqrt{75}$

12. When $f(X) = X^4 + X^2 - 4X + 6$ is divided by $(X + 1)$, then the remainder is ___.
(A) 10   (B) 12   (C) 0   (D) 8

13. Radha has some paint sufficient to paint an area equal to 18.75 m^2. How many bricks measuring 22.5 cm x 10 cm x 7.5 cm can be painted out of this paint?
(A) 100   (B) 200   (C) 250   (D) 300

14. The ratio of the area and perimeter of the square is 2 : 1. What will be the area of circle with diameter equal to diagonal of the square is ___.
(A) 08 π (B) 16 π
(C) 32 π (D) 64 π

15. Find the cost of painting a cylindrical container closed at both ends when the radius of the base is 7 cm and height of the cylinder is 13 cm. The cost of painting is Rs.20 per sq cm.
(A)Rs.480   (B) Rs.5760
(C) Rs.8800   (D) Rs.17600

16. One can be recognised by one's voice due to the uniqueness of ___.
(A) quality   (B) loudness
(C) amplitude   (D) pitch

17. Charge flows between two ends of a conductor when _____.
(A) same electric potential is present at the two ends.
(A) equal and same type of charges are present at the two ends.
(B) different electric potential is present at the two ends.
(C) the potential difference between the ends is zero.

18. The device used to test whether an object is carrying current or not, is _____.
(A) Electrometer   (B) Electroscope
(C) Microscope   (D) None of these

19. In an electric current, electrons flow from _____ end to _____ end of the circuit.
(A) positive, negative
(B) negative, positive

(C) upper, lower
(D) None of these

20. Which of the following metals is stored under kerosene?
    (A) Copper　　　　(B) Iron
    (C) Carbon　　　　(D) Sodium

21. The most reactive metal among Na, Mg, Fe, Ag and Au is _____.
    (A) Na　　　　　　(B) Fe
    (C) Au　　　　　　(D) Ag

22. In a candle flame, the nonluminious zone is the _____ zone.
    (A) inner　　　　　(B) middle
    (C) outer　　　　　(D) B & C both

23. Which of the following is a communicable disease?
    (A) Cholera　　　　(B) Common cold
    (C) Tuberculosis　　(D) All of these

24. *Pisciculture* is the rearing technique for _____.
    (A) bees　　　　　(B) moths
    (C) fishes　　　　　(D) insect

25. Which of the following statements is **not** correct?
    (A) rain water is the purest form of
        water.
    (B) ground level ozone acts as a
        pollutant
    (C) acid rain help the plant to grow well
    (D) Both A & C

ANSWERS

1	B	6	C	11	A	16	D	21	C
2	B	7	D	12	B	17	C	22	C
3	B	8	C	13	B	18	B	23	D
4	B	9	D	14	C	19	B	24	C
5	C	10	D	15	D	20	D	25	C