Centre for Excellence

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ALL INDIA

MATHS SCIENCE TALENT EXAMINATION
CLASS VII

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

1. "Accident" is related to "carefulness" in the same way as "Disease" is related to _____.
   (A) doctors   (B) sanitation
   (C) medicine   (D) treatment

2. If ACTION is coded as ZXGRLM, then HEALTH will be coded in the same language as _____.
   (A) TVZOGT   (B) RUZPRG
   (C) TVZTGO   (D) SVZOGS

3. A watch reads 10:30. If the minute hand points to East, in which direction the hour hand points?
   (A) North-East   (B) South-West
   (C) South-East   (D) West

4. 2, 10, 19, 29, 40, 52, 65, 79, 94, _____.
   (A) 108   (B) 112
   (C) 109   (D) 110

5. Arrange the following in a logical and meaningful order.
   1. study   2. job   3. examination
   4. earn   5. apply
   (A) 1, 3, 4, 2, 5   (B) 1, 3, 5, 2, 4
   (C) 1, 3, 4, 5, 2   (D) 1, 2, 3, 4, 5

6. After 10 years, Sonam will be one and a half times as old as she is now. What is her present age?
   (A) 15   (B) 30
   (C) 45   (D) 20

7. Sourabh bought a trouser and saved Rs.20 when a discount of 25% was given. What was the price of the trouser before the discount?
   (A) 100   (B) 80
   (C) 125   (D) 145

8. Priyadarshini bought 10 pairs of socks at Rs.15 per pair. At what price per pair must she sell so as to earn a profit of 10%?
   (A) Rs.16.50   (B) Rs.17.50
   (C) Rs.20   (D) Rs.20.50

9. Two cross roads, each of width 6m run at right angle through the centre of a rectangular garden of length 70m and breadth 45m and parallel to its sides. Find the cost of constructing the roads at the rate of Rs.109 per m^2.

(A) Rs.71,286   (B) Rs.75,210
(C) Rs.68,670   (D) none of these

10. Find "*a*" if

$$\left(\frac{17}{14}\right)^4 \times \left(\frac{17}{14}\right)^3 = \left(\frac{17}{14}\right)^{a-1}$$

(A) 13   (B) 8
(C) 2   (D) none of these

11. Ishita, Purvi and Simran were studying in class VII. In their term exams, out of total 25 marks, Ishita got 14 marks and Purvi got 18 marks. If the average score of the three was 15, find how much Simran scored?
(A) 15   (B) 13
(C) 14   (D) 16

12. A train covers a distance of 12 km in 10 minutes. If it takes 3 seconds to pass an electric pole, then the length of the train is _____.
(A) 20 m   (B) 45 m
(C) 60 m   (D) 100 m

13. Find the number of sides of a regular polygon if each of its interior angle measures 165^0.
(A) 36   (B) 24
(C) 12   (D) 18

14. In $\triangle$PQR, seg. QS and seg. RT are altitudes which intersect at Point G. If m$\angle$QGR = 1100, then m$\angle$QPR =?
(A) 80^0 (B) 70^0
(C) 40^0 (D) 65^0

15. Abhishek sold two refrigerators for Rs.19800 each, gaining 10% on one and losing 10% on the other. Find his % gain or loss on the whole transaction
(A) 1% gain   (B) 2 % gain
(C) 2% loss   (D) 1% loss

16. The range of a laboratory thermometer is _____.
(A) 0^oC to 110^0C (B) -10^oC to 100^0C
(C) 0^oC to 100^0C (D) -10^oC to 110^0C

17. A solar eclipse takes place only on a _____ moon day
(A) New   (B) Full
(C) No   (D) none of these

18. A ball is thrown vertically upward with a velocity of 20 m/s. Calculate how high it goes? (g= $10m/s^2$).
(A) 420 m   (B) 20 m
(C) 380 m   (D) none of these

19. Chemically, washing soda is
    (A) N_2CO_3 (B) $NaHCO_3$
    (C) KOH   (D) none of these

20. In the soil profile, _____ is made up of small lumps of rocks with cracks and crevices.
    (A) A-horizon   (B) B-horizon
    (C) C-horizon   (D) D-horizon

21. 'Muga' is a variety of _____.
    (A) Cotton   (B) Silk
    (C) Wool   (D) Metalloid

22. ____ is used to vulcanise rubber.
    (A) Sodium   (B) Calcium
    (C) Sulphur   (D) Iron

23. Mixed Farming is an agricultural practice involving:
    (A) Livestock and Crops
    (B) Vegetables and Fruits
    (C) Pulses and Cereals
    (D) Different Crops at the same time

24. An example of a non-renewable natural resource is ____.
    (A) Plant   (B) Animal
    (C) Air   (D) all of these

25. ____ soil is considered the best for growth of the plants.
    (A) Sandy   (B) Clayey
    (C) Loamy   (D) Laterite

ANSWERS

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