



# Talent Hunt Test

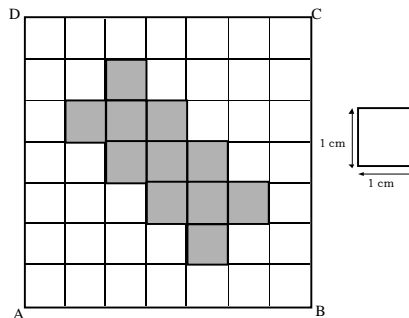
## X<sup>th</sup> Class-Paper

### **Instructions :**

- i. The total test paper consists of **Twenty five** multiple choice questions numbered from **1 to 30**.
- ii. Each question is followed by four alternatives 1, 2, 3 and 4.
- iii. Each question has only one correct answer.
- iv. (a) **Question No 1 to 20** Each correct answer carries **+ 3 Marks**.  
(b) **Question No 21 to 30** Each correct answer carries **+ 4 Marks**.  
(c) For each wrong answer **no mark** will be **deducted**.
- v. The answers to these questions should be marked in **the OMR sheet**.
- vi. **Max. Marks : 100**
- vii. **Max. Time : 60 Minutes**

1. The sum of  $(-1)^{19} + (2)^2 + (3)^3$  is  
 (1) 31 (2) 32 (3) 30 (4) 35
2. Consider the following statements:  
 a)  $13 \times 13 \times 13 \dots\dots\dots 100$  times =  $(13)^{-100}$   
 b)  $(-12) \times (-12) \times (-12) \dots\dots\dots 100$  times =  $(-12)^{100}$ ,  
 which of the above is true?  
 (1) a (2) b  
 (3) Both a and b (4) neither a nor b
3. The H.C.F and L.C.M of two numbers are 37 and 2664 respectively. If one of the numbers is 333, then the other number is  
 (1) 296 (2) 295 (3) 293 (4) 290
4. The HCF of 324, 576 and 1080 is  
 (1) 72 (2) 36 (3) 18 (4) None
5. a) All even numbers are prime numbers.  
 b) All odd numbers are prime numbers.  
 Which of the above statements is/are true?  
 (1) a (2) b (3) both a & b (4) neither 'a' nor 'b'
6. If a, b, c are integers, then which of the following is true?  
 (a)  $a - b \geq b - a$  (b)  $a - (b - c)$  (c)  $(a - b) - c$  (d) If  $a > b$  then  $a - c > b - c$   
 (1) a, b (2) b, c (3) a, c (4) a, b, c
7. If  $A + B = \frac{17}{20}$ ,  $A - C = 2\frac{2}{5}$  and  $B = 3\frac{1}{2}$ , then the value of C is  
 (1)  $-\frac{17}{20}$  (2)  $\frac{20}{17}$  (3)  $-\frac{20}{17}$  (4)  $\frac{17}{20}$
8. Which of the following statements is true?  
 (1) 2613 is divisible by 6  
 (2) 123612 is divisible by 6  
 (3) 273842 is divisible by 6  
 (4) 46784 is divisible by 6
9. What least value must be given to \* so that the number 97215\*6 is divisible by 11?  
 (1) 2 (2) 3 (3) 4 (4) 5
10. In  $\Delta ABC$ , if  $AB = 18\text{cm}$ ,  $BC = 16\text{cm}$ ,  $AC = 20\text{cm}$ , then its perimeter is  
 (1) 64 cm (2) 56 cm (3) 54cm (4) 58cm
11. In whole numbers, closure property is not satisfied with respect to both the operations  
 (1) (2)  $(+, \times)$  (3)  $(-, +)$  (4)  $(-, \div)$
12. If  $\sqrt{6+2\sqrt{7+3\sqrt{36}}} = x$  then the value of x is  
 (1) 8 (2) 2 (3) 4 (4) 6
13. If  $\frac{1}{x} = \frac{1}{25}$ , then the value of 'x' is  
 (1) 25 (2) 24 (3) 35 (4) 27
14. The square root of 64009 is  
 (1) 253 (2) 347 (3) 363 (4) 803
15. If a society collected Rs. 8836 and each member contributing as many rupees as there were members, then the number of members in the society is  
 (1) 92 (2) 94 (3) 96 (4) 98

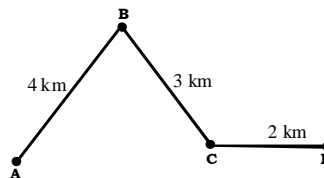
16. Which of the following relations represents the relationship between the average speed, time and distance correctly ?  
 (1) Average speed = distance × time  
 (2)  
 (3) Time = average speed + distance  
 (4) Distance = average speed – time
17. The train 'A' travelled a distance of 120 km in 3 hours whereas another train 'B' travelled a distance of 180 km in 4 hours. Which train travelled faster ?  
 (1) train A (2) train B (3) Both are equally faster (4) none
18. S.I. unit of retardation is  
 (1) – m/s<sup>2</sup> (2) m/s<sup>2</sup> (3) m (4) ms<sup>2</sup>
19. 1 centimetre = \_\_\_\_\_ metre  
 (1) 10<sup>-4</sup> (2) 10<sup>-2</sup> (3) 10<sup>2</sup> (4) 10<sup>4</sup>
- 20.



$$\frac{\text{Total distance travelled}}{\text{Total time taken}}$$

Let ABCD is a centimetre graph paper. The area of darkened surface on the graph paper is \_\_\_\_\_

- (1) 10cm<sup>2</sup> (2) 9 cm<sup>2</sup> (3) 11cm<sup>2</sup> (4) 8 cm<sup>2</sup>
21. A room has dimensions 4m × 3m. An ant starts moving from one corner of the room to the diagonally opposite corner of the room. The magnitude of displacement of the ant is \_\_\_\_\_  
 (1) 4m (2) 5m (3) 6m (4) 1m
22. The figure shows the path taken by a boy during walk



The total distance moved by the boy is

- (1) 5 km (2) 9 km (3) 10 km (4) 12 km
23. If density of wood is 500 kg/m<sup>3</sup>, then what will be the value in g/cm<sup>3</sup>?  
 (1) 0.5 g/cm<sup>3</sup> (2) 5 g/cm<sup>3</sup> (3) 0.6 g/cm<sup>3</sup> (4) 4 g/cm<sup>3</sup>

**24. Identify the solvents used to separate the components of gun powder:**

- (1) Carbon disulphide (2) Water  
(3) Benzene (4) Both 1 and 2

**25. Chlorophyll is soluble in:**

- 1) Petrol 2) Methylated spirit 3) Water 4) Ethyl alcohol

**26. Choose the correct statement:**

- A) Grease is soluble in petrol.**  
**B) Nitre is soluble in ethyl alcohol.**  
**C) Paraffin wax is soluble in turpentine oil.**  
**D) Phosphorus is soluble in water.**

- (1) Only A and C (2) Only A and B (3) Only C and D (4) Only B and C

**27. Elements are classified into:**

- i) Metals      ii) Non-metals      iii) Metalloids      iv) Noble gases**

- (1) i, ii, iii (2) i, ii, iv (3) i, iii, iv (4) i, ii, iii and iv

**28. Identify phosphate fertilizer:**

- (1) Urea (2) Basic calcium nitrate  
(3) Ammonium sulphate (4) Super phosphate of lime

**29. Oil in water is a:**

- (1) Homogeneous liquid-liquid mixture (2) Heterogeneous liquid-liquid mixture  
(3) Homogeneous solid-liquid mixture (4) Homogeneous liquid-gas mixture

**30. The symbol of the element Titanium is :**

- (1) Tc (2) Te (3) Ti (4) Tm

*Rough Work*

**KEY FOR X<sup>th</sup>-CLASS-Paper**

[1] 3	[2] 2	[3] 1	[4] 2
[5] 4	[6] 4	[7] 4	[8] 2
[9] 2	[10] 3	[11] 4	[12] 3
[13] 1	[14] 1	[15] 2	[16] 2
[17] 2	[18] 2	[19] 2	[20] 3
[21] 2	[22] 2	[23] 1	[24] 4
[25] 2	[26] 1	[27] 4	[28] 4
[29] 2	[30] 3		



**KEY FOR X<sup>th</sup>-CLASS-Paper**

[1] 3	[2] 2	[3] 1	[4] 2
[5] 4	[6] 4	[7] 4	[8] 2
[9] 2	[10] 3	[11] 4	[12] 3
[13] 1	[14] 1	[15] 2	[16] 2
[17] 2	[18] 2	[19] 2	[20] 3
[21] 2	[22] 2	[23] 1	[24] 4
[25] 2	[26] 1	[27] 4	[28] 4
[29] 2	[30] 3		