

TNPSC – GROUP IV

GENERAL STUDIES - 2016 (ENGLISH)

APTITUDE

1. The value of $\frac{1.75 \times 1.75 + 2 \times 1.75 \times 0.75 + 0.75 \times 0.75}{1.75 \times 1.75 - 0.75 \times 0.75}$

(A) 3.5 (B) 6.25
(C) 1 (D) **2.5**
2. The value of $16^3 + 7^3 - 23^3$ is

(A) **-7728** (B) 7028
(C) 7728 (D) -7718
3. If the ratio of length and breadth of a rectangle is 4 : 7. Find the length while its breadth is 77 cm.

(A) 22 cm (B) 33 cm
(C) **44 cm** (D) 55 cm
4. A room is 5 m 40 cm long and 4 m 50 cm broad. Its Area is

(A) 23.4 m² (B) **24.3 m²**
(C) 25 m² (D) 98.01 m²
5. 3 – 25 here, which of the following number is suitable in -, so that the number will be a perfect square?

(A) 1 (B) **0** (C) 4 (D) 6
6. The average mark of 10 children is 80 then their total mark is

(A) 200 (B) 300
(C) **800** (D) 400
7. A man and woman are engaged in a work. A man can do a piece of work in 4 days and the woman can do in 12 days. Find how many days will they take to finish it together?

(A) 6 days (B) 5 days
(C) 4 days (D) **3 days**
8. $\left(-1\frac{2}{7}\right) + \left(-3\frac{5}{7}\right) + \left(6\frac{4}{7}\right)$ is _____

(A) $\frac{3}{7}$ (B) $\frac{5}{7}$
(C) $\frac{11}{7}$ (D) $\frac{19}{7}$
9. The population of a city in the year 2014 is 1,80,000 and increases at a rate of 20% per year. Find the population of the city in the year 2016?

(A) 2,40,000 (B) **2,59,200**
(C) 2,55,000 (D) 2,54,300
10. Which of the following set of measurements will form a right angle triangle?

(A) 6, 9, 12 (B) 5, 8, 10
(C) **5, 5, 5√2** (D) 3, 4, 4√2
11. The _____ value _____ of
$$\sqrt{609 + \sqrt{248 + \sqrt{60 + \sqrt{7 + \sqrt{81}}}}}$$

(A) 20 (B) **25** (C) 16 (D) 9
12. If you stand in a rectangular room, where two adjacent walls are covered with plane mirrors, the total number of your images will be

(A) Infinity (B) 1
(C) **3** (D) 0
13. The base of a triangle is four times its height and its area is 50 m². The length of the base is

(A) 10 m (B) 15 m
(C) **20 m** (D) 25 m

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14. A can do a piece of work in 20 days and B can do it in 25 days. Both of them finished the work and earned Rs. 3,600. Then A's share is
 (A) Rs. 1,600 (B) **Rs. 2,000**
 (C) Rs. 3,000 (D) Rs. 3,100
15. The breadth, height and volume of a cuboid are 10 cm, 11 cm and 3080 cm³ respectively. Find the length of the cuboid.
 (A) 21 cm (B) **28 cm**
 (C) 24 cm (D) 30 cm
16. The price of a house is decreased from rupees fifteen lakhs to rupees twelve lakhs. The percentage of decrease is
 (A) 10% (B) **20%**
 (C) 30% (D) 40%
17. If $3(t - 3) = 5(2t + 1)$ then $t = ?$
 (A) **-2** (B) 2 (C) -3 (D) 3
18. Find the next term of 4 in the series is 1, 1, 2, 8, 3, 27, 4, ...
 (A) 31 (B) 29 (C) 16 (D) **64**
19. Three angles of a triangle are $x - 30^\circ$, $x - 45^\circ$, $x + 15^\circ$, find the value of x .
 (A) 60° (B) 40°
 (C) **80°** (D) 100°
20. The difference between simple interest and compound interest for a sum of Rs. 12,000 lent at 10% per annum in 2 years, is
 (A) Rs. 80 (B) Rs. 90
 (C) **Rs. 120** (D) Rs. 100
21. If $\frac{7}{12}^{-4} \times \frac{7}{12}^{3x} = \frac{7}{12}^5$; then the value of x is
 (A) -1 (B) 1 (C) 2 (D) **3**
22. If 22 men can build a wall of 110 meters in 10 days. The length of a similar wall built by 30 men in 6 days is
 (A) 100 mts (B) **90 mts**
 (C) 80 mts (D) 70 mts
23. A man bought an old bicycle for Rs. 1,500. He spends Rs. 500 on its repair and sells it for Rs. 1,800. Find the percentage of his loss.
 (A) **10%** (B) 15%
 (C) 20% (D) 5%
24. Find the LCM of a^3b^4 , ab^5 , a^2b^7
 (A) a^7b^3 (B) **a^3b^7**
 (C) a^2b^5 (D) ab^5
25. Simplify
 $5\frac{1}{4} + 4\frac{3}{4} + 7\frac{5}{8} + 6\frac{7}{8} + 11\frac{3}{4}$
 (A) $\frac{98}{47}$ (B) $\frac{108}{49}$
 (C) $\frac{98}{45}$ (D) $\frac{96}{47}$

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