

Narasaraopet Engineering College

Narasaraopet

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CTS MODEL TESTS / Test 27 - Full Length Test - 1 / Numerical Aptitude

1. A and B can do a piece of work in 6 days and A alone can do it in 9 days. The time taken by B alone to do the work is
 - a. (a) 20 days
 - b. (b) 18 days
 - c. (c) 24 days
 - d. (d) None of these
2. 15 men take 21 days of 8 hours each to do a piece of work. How many days of 6 hours each would 21 women take, if 3 women do as much work as 2 men?
 - a. (a) 20
 - b. (b) 18
 - c. (c) 25
 - d. (d) 30
3. A train 100 metres long passes a bridge at the rate of 72 km/hr in 25 seconds. What is the length of the bridge?
 - a. (a) 400 m
 - b. (b) 17 m
 - c. (c) 600 m
 - d. (d) None of these
4. Walking at $\frac{3}{4}$ of his usual pace, a man reaches his office 20 minutes late. Find his usual time.
 - a. (a) 2 hrs.
 - b. (b) 1 hrs.
 - c. (c) 3 hrs.
 - d. (d) 4 hrs.
5. Speed of a man is 10 km/hr in still water. If the rate of current is 3 km/hr, then the effective speed of the man upstream is:
 - a. (a) 7 km/hr
 - b. (b) 8.5 km/hr
 - c. (c) 9 km/hr
 - d. (d) None of these
6. The ages of A and B are in the ratio of 6 : 5 and sum of their ages is 44 years. The ratio of their ages after 8 years will be
 - a. (a) 4 : 5
 - b. (b) 3 : 4
 - c. (c) 3 : 7
 - d. (d) 8 : 7
7. In what ratio two varieties of tea, one costing Rs. 25 per kg and the other costing Rs. 30 per kg should be blended to produce blended variety of tea worth Rs. 28 per kg?
 - a. (a) 3 : 4
 - b. (b) 4 : 3
 - c. (c) 2 : 3
 - d. (d) 3 : 5
8. The average weight of 5 persons sitting in a boat is 38 kg. If the average weight of the boat and the persons sitting in the boat is 52 kg. What is the weight of the boat?

- a. (a) 228 kg
- b. (b) 122 kg
- c. (c) 232 kg
- d. (d) 242 kg

9. Niki, Nisha and Anu formed a partnership with investments of Rs.75000, Rs.60000 and Rs.40000 respectively. After 3 years of operation, the partnership had a net profit of Rs.26250. What was the share of Anu in the profit?

- a. (a) Rs.6000
- b. (b) Rs.5000
- c. (c) Rs.8000
- d. (d) None of these.

10. A mans wages were decreased by 50%.Again ,the reduced wages were increased by 50%.He has a loss of

- a. (a) 35%
- b. (b) 25%
- c. (c) 20%
- d. (d) None of these

11. The length and breadth of a square are increased by 30% and 20%,respectively.The area of the rectangle so formed exceeds the area of the square by.

- a. (a) 56%
- b. (b)46%
- c. (c) 66%
- d. (d) None of these

12. One tap can fill a cistern in 2 hours and another can empty the cistern in 3 hours. How long will they take to fill the cistern if both the taps are opened.

- a. (a) 6 hours
- b. (b) 7 hours
- c. (c) 6.30 hours
- d. (d) None of these

13. Three coins are tossed. What is the probability of getting at most two tails?

- a. (a) 7/8
- b. (b) 1/2
- c. (c) 3/4
- d. (d) None of these

14. There are 10 prizes and 25 blanks in a lottery. If John has taken a lottery, what is the probability for him to get a prize?

- a. (a) 2/5
- b. (b) 1/2
- c. (c) 3/4
- d. (d) None of these

15. Rajesh sells tape recorder to Mohit at a loss of 10% and Mohit sells it to Shiv at a loss of 20%. If Shiv pays Rs. 1440 for it, at what price did Rajesh buy?

- a. (a) Rs. 1920
- b. (b) Rs. 2000
- c. (c) Rs. 1800
- d. (d) None of these

16. Rakesh borrowed Rs. 5000 from Ganesh at simple interest. IF Ganesh got Rs. 500 more than his capital after 5 years, then the rate of interest per annum is

- a. (a) 2%
- b. (b) 3%
- c. (c) 4%
- d. (d) None of these

17. It was Sunday on January-1-2006. Find the day of the week on January-1-2010?

- a. (a) Sunday
- b. (b) Saturday
- c. (c) Friday
- d. (d) Wednesday

18. In how many ways can the letters of the word MACHINE be arranged?

- a. (a) 720
- b. (b) 120
- c. (c) 5040
- d. (d) None of these

19. How many 3 digit numbers can be formed from the digits 2, 3, 5, and 9 which are divisible by 5 and none of the digits is repeated?

- a. (a) 120
- b. (b) 12
- c. (c) 24
- d. (d) None of these

20. A college has 10 basketball players. A 8 member team will be selected out of these 10 players. How many different selections can be made?

- a. (a) 1260
- b. (b) 210
- c. (c) 45
- d. (d) 90