Company based paper-2
Cognizant based Questions
30 Questions, 30 minutes

1. Three cubes of edges 6 cms, 8 cms and 10 cms are meted without loss of metal into a single cube. The edge of the new cube will be:
   A 8 cms
   B. 12 cms
   C. 14 cms
   D. 16 cms
2. If 378 coins consist of rupee, 50 paise and 25 paise coins, whose values are proportional to 13 :11 : 7, the number of 50 paise coins will be :
   A. 128
   B. 132
   C. 133
   D. 136
3. A person travels 48 kms at 12 kms/hour and further 48 kms at 16km.s/hour. His average speed for the whole
   A. 14 km/hour
   B. 13(4/7)km/hour
   C. 12(5/7)km/hour
   D. 13(5/7)km/hour
4. Simplify (0.001344 / 0.3 x 0.7) = ?
   A. 0.0064
   B. 0.064
   C. 0.64
   D. 6.4
5. The difference of two numbers is 11 and one fifth of their sum is 9. The numbers are :
   A. 31, 20
   B. 30, 19
   C. 29, 18
   D. 28, 17
6. How many numbers between 1 and 100 are divisible by 7 ?
   A. 9
   B. 11
   C. 17
   D. 14
7. What is the number which when multiplied by 13 is increased by 180?
   A. 13
   B. 15
   C. 23
   D. 35
8. In 24 minutes, the hour hand of a clock moves through an angle of:

A. 60°
B. 24°
C. 12°
D. 5°

9. √0.0081 is equal to :
   A. 0.09
   B. 0.9
   C. ±0.08
   D. 0.81
10. A reduction of 20% in the price of mangoes enables a person to purchase 12 more for Rs. 15. What was the price of 16 mangoes before reduction of price ?
    A. Rs. 6 B. Rs. 5
    C. Rs.7 D. Rs. 9
11. In an election between two candidates, one got 55% of the total valid votes and got 20% invalid votes. At the end of the day when the total number of votes were counted, the total number was found to be 7500. So what was the total number of valid votes that the losing candidate got, was:
    a) 2400
    b) 3100
    c) 3400
    d) 2700
12. A whole number n which when divided by 4 gives 3 as remainder. What will be the remainder when 2n is divided by 4?
    a) 0
    b) 1
    c) 4
    d) 2
13. Raju, Ramu and Razi can do a piece of work in 20, 30 and 60 days respectively depending on their capacity of doing work. If Raju is assisted by Ramu and Razi on every third day, then in how Raju will complete the work?
    a) 12 days
    b) 15 days
    c) 16 days
    d) 18 days
14. What is the smallest number which when decreased by 8 is divisible by 21, 27, 33, and 55?
    a) 1490
    b) 10405
    c) 15490
    d) None of the above
15. A tap can fill a bucket in 6 hours. After half the bucket is filled, three more similar taps are opened. What is the total time taken to fill the bucket completely?
    a) 3 hrs 15 min

b) 3 hrs 45 min
c) 4 hrs 25 min
d) 4 hrs 15 min

16. A reduction of 20% in the price of strawberries enables a person to purchase 12 more for Rs. 15. What was the price of 16 strawberries before reduction of price?
    a) 6
    b) 5
    c) 7
    d) 9
17. The ratio of the no. of white balls in a bag to that of black balls is 1:2. If 9 grey balls are added the ratio of nos. of white, black and grey become 2:4:3. How many black balls were in the bag?
    a) 6
    b) 9
    c) 12
    d) 8
18. A sum of Rs.312 was divided among 100 boys and girls in such a way that the boy gets Rs.3.60 and each girl Rs.2.40 the number of girls is:
    a) 40
    b) 45
    c) 35
    d) 30
19. The average weight of 8 person's increases by 2.5 kg when a new person comes in place of one of them weighing 65 kg. What might be the weight of the new person?
    a) 76 kg
    b) 5 kg
    c) 85 kg
    d) None
20. A shopkeeper gives two successive discounts of 20 % and 10 % on surplus stock. Further, he also gives 5 % extra discount on cash payment. If a person buys a shirt from the surplus stock and pays in cash, what overall discount percent will he get on the shirt?
    a) 60%
    b) 5%
    c) 33%
    d) 2%
21. A & B are at a distance of 800 m. They start towards each other at 20 & 24 kmph. As they start, a bird sitting on the cap of A, starts flying towards B, touches B & then returns towards A & so on, till they meet. What is the distance traveled by the bird, if its speed is 176 kmph?
    a) 3040 m
    b) 3200 m
    c) 3100 m
    d) 2600 m

22. How long will a boy take to run round a square field of side 35 meters, If he runs at the rate of 9 km/hr?
    a) 40 sec
    b) 50 sec
    c) 56 sec
    d) 54 sec
23. A box contains 15 marbles out of which 4 are white, 5 are red and 6 are blue. Three balls are to be drawn at random from the bag. What is the probability that all of them are red is:
    a) 1/22
    b) 2/89
    c) 2/77
    d) 2/91
24. From a group of 7 men and 6 women, five persons are to be selected to form a committee so that at least 3 men are there in the committee. In how many ways can it be done?
    a) 624
    b) 209
    c) 756
    d) 212
25. How many 3-letter words with or without meaning, can be formed out of the letters of the word, 'LOGARITHMS', if repetition of letters is not allowed?
    a) 720
    b) 420
    c) 5040
    d) 256
26. A problem is given to three students whose chances of solving it are 1/2, 1/3 and 1/4 respectively. What is the probability that the problem will be solved?
    a) 1/4
    b) 1/2
    c) 3/4
    d) 7/12
27. Simplify: $\log_4 3 \times \log_{243} 64$
    a) 3/5
    b) 2/5
    c) 3/4
    d) ⅓
28. What is the number of digits in $(33)^3$? Given that $\log 3 = 0.47712$.
    a) 12
    b) 13
    c) 14
    d) 15

29. A hollow iron pipe is 21 cm long and its external diameter is 8 cm. If the thickness of the pipe is 1 cm and iron weighs 8 g/cm3, then the weight of the pipe is:
    a) 6 kg
    b) 696 kg
    c) 36 kg
    d) 9 kg
30. There are forty students in a class out of which there are 14 who are taking Maths and 29 who are taking Computer. What is the probability that a randomly chosen student from this group is taking only the Computer class?
    a) 40%
    b) 55%
    c) 65%
    d) 70%