



### SECTION 1 : QUANTITATIVE APTITUDE

1. How many natural numbers between 150 and 500 are divisible by 2, 3 and 7 together?

A. 8

B. 9

C. 10

D. 11

Ans: A

2. A girl wrote all the numbers from 200 to 300. Then she started counting the number of two's that has been used while writing all these numbers. What is the number that she got?

A. 111

B. 120

C. 108

D. 114

Ans: B

3. The sum of three numbers is 196. If the ratio of the first to second is 2 : 3 and that of the second to the third is 5 : 8, then the second number is:

A. 53

B. 84

C. 48

D. 58

Ans: B

4. In an election, candidate A got 75% of the total valid votes. If 20% of the total votes were declared invalid and the total numbers of votes is 560000, find the number of valid vote polled in favour of candidate.

A. 432000

B. 448000

C. 480000

D. 508000



Ans: B

5. The tax on a commodity is diminished by 30% and its consumption increased by 20%. The effect on revenue is?

- A. It increases by 8%
- B. It decreases by 6%
- C. No change in revenue
- D. It decreases by 16%
- E. None

Ans: D

6. There were 25 students in a hostel. Due to the admission of 6 new students the expenses of the mess were increased by Rs.32 per day while the average expenditure per head diminished by Re 1. What was the original expenditure of the mess?

- A. Rs. 455.4
- B. Rs. 320.5
- C. Rs. 228.5
- D. Rs. 420.3

Ans: C

7. After applying successive discounts of 20% and 10% on an article, it was sold at Rs. 151. Find the marked price of the article.

- A. Rs. 593.6
- B. Rs. 600.8
- C. Rs. 209.7
- D. None

Ans: C

8. Two shopkeepers announce the same price of Rs 600 for a sewing machine. The first offers successive discounts of 20% and 5% while the second offers successive discounts of 10% and 6%. The shopkeeper that offers a better discount, charges ..... less than the other shopkeeper.



- A) Rs 51.6
- B) Rs. 16.8
- C) Rs. 22.30
- D) Rs. 35.40

Ans: A

9. Father is 4 times more aged than his daughter. If after 6 years, he would be 4 times of daughter's age, then further after 5 years, how many times he would be of his daughter's age?

- a. 1 ( $\frac{1}{2}$ ) times
- b. 2 times
- c. 2.35 times
- d. 3.8 times

Ans: C

10. A, B and C rents a pasture for Rs.435. A put in 6 horses for 4 months, B 8 horses for 4 months and 9 horses for 2 months. How much should C pay?

- A. Rs.270
- B. Rs.185.2
- C. Rs.215.2
- D. Rs.105.8

Ans: D

11. A car travels first 80 km at 32 km/hr and the next 80 km at 40 km/hr. What is the average speed for the first 420 km of the tour?

- A. 80.24 km/hr
- B. 74.24 km/hr
- C. 93.33 km/hr
- D. 72.21 km/hr

Ans: C



12. A person has to cover a distance of 8 km in 75 minutes. If he covers one-half of the distance in two-thirds of the total time, to cover the remaining distance in the remaining time, what should be his speed in km/hr?

- A. 1.4 km/hr
- B. 3.2 km/hr
- C. 10 km/hr
- D. 4.8 km/hr

Ans: D

13. A train travelled at an average speed of 100 km/hr, stopping for 3 minutes after every 75 km. How long did it take to reach its destination 600 km from the starting point?

- A. 6 hrs 21 min
- B. 7 hrs 14 min
- C. 7 hrs 22 min
- D. 6 hrs

Ans: A

14. A boat covers 12 km upstream and 18 km downstream in 3 hours while it covers 36 km upstream and 24 km downstream in 6.5 hours. the velocity of the current is:

- A) 1 km/hr.
- B) 1.5 km/hr.
- C) 2 km/hr.
- D) 2.5 km/hr

Ans: C

15. A and B can do a piece of work in 10 days, B and C in 12 days, C and A in 15 days. How long will A take to do it?

- A. 18 days
- B. 20 days
- C. 24 days
- D. 30 days

Ans: C



16. Anita, Indu and Geeta can do a piece of work in 36 days, 54 days and 72 days respectively. They start working together. After working for 8 days. Anita goes away and Indu leaves 14 days before the work is finished. Only Geeta remains at work from beginning to end. In how many days was the whole work done?

- A. 36 days
- B. 47 days
- C. 32 days
- D. 69 days

Ans: C

17. A cistern has three pipes, A, B and C. The pipes A and B can fill it in 4 and 5 hours respectively and C can empty it in 2 hours. If the pipes are opened in order at 2, 3 and 4 A.M. When will the cistern be empty?

- A. 3 PM
- B. 7 PM
- C. 6 PM
- D. 5 PM

Ans: C

18. How many 5 digit telephone numbers can be formed if each number starts with 4 and end with 5 and no digit appears more than once?

- A. 720
- B. 360
- C. 336
- D. 168

Ans: C

19. How many possible outcomes are there when four dice are rolled in which at least one dice shows 6?

- A.  $6^5 - 5^4$
- B.  $6^4 - 5^4$
- C.  $6^5$



D.  $5^6$

Ans: B

20. A, B and C sit in a ring arrangement with 10 persons. What is the probability that A, B and C will sit together?

A.  $1/22$

B.  $3/11$

C.  $2/11$

D.  $4/3$

Ans: A

21. Four houses are available in a locality. Four persons apply for the houses. Each applies for one house without consulting others. The probability that all the four apply for the same house is :

A)  $2/32$

B)  $1/64$

C)  $8/37$

D)  $7/4$

Ans: B

22. A person borrows Rs.5000 for 2 years at 8% p.a. simple interest. He immediately lends it to another person at  $6\frac{1}{4}\%$  p.a for 2 years. Find his loss in the transaction per year.

A. Rs. 87.5

B. Rs. 92

C. Rs.175

D. Rs. 112.50

Ans: A

23. The Compound interest on Rs. 4096 at  $6\frac{1}{4}\%$  per annum for 2 years 73 days, is :

A. Rs. 592.3

B. Rs. 585.8

C. Rs. 650

D. Rs. 621.3

Ans: B



24. In a zoo, there are Rabbits and Pigeons. If heads are counted, there are 100 and if legs are counted, there are 290. How many pigeons are there?

A.90

B.100

C.110

D.55

Ans: D

25. If  $\log_x(16/25) = -1/2$ , then the value of  $x$ ?

A)  $-3/4$

B)  $3/4$

C)  $625/256$

D)  $256/625$

Ans: C

### SECTION 2 : LOGICAL REASONING

1. Find out the wrong number 1, 125, 729, 2177

A. 2177

B. 125

C. 729

D. 1

Ans: A

2. In a certain code 'RATIONAL' is written as 'TARNOILA'. How would 'BRUTAL' be written in that code?

A. URBLAT

B. UTYREM

C. UREWSA

D. UTUIOAA

Ans: A

3. Find the odd man out?



- A. Rabbit
- B. Fox
- C. cat
- D. Dog

Ans: B

4. Statements: Some eyes are ears. Some ears are lungs. All lungs are hands

conclusion:

- I. Some hands are eyes.
- II. Some hands are ears
- III. Some lungs are eyes
- IV. No hand is eye

- A. only I follows
- B. only II follows
- C. either I or II follows
- D. neither I nor II follow
- E. both I and II follow

Ans: B

5. A clock is set right at 10 a.m. on Monday. The clock loses 15 min. in 24 hrs. What will be the true time when the clock indicates 4 am on the following Saturday?

- A. 5:12 am
- B. 5: 32 pm
- C. 5:12 pm
- D. 5:32 am

Ans: A

6. Raghu said, "This girl is the wife of the grandson of my mother." Who is Raghu to the girl ?

- A. Father-in-law
- B. Grandfather
- C. Husband
- D. Father





Ans: A

7. Two cars start from the opposite places of a main road, 150 km apart. First car runs for 25 km and takes a right turn and then runs 15 km. It then turns left and then runs for another 25 km and then takes the direction back to reach the main road. In the mean time, due to minor break down the other car has run only 35 km along the main road. What would be the distance between two cars at this point?

- A. 45 km
- B. 55 km
- C. 65 km
- D. 25 km

Ans: C

8. CHAIRS is related to AHCSRI in the same way as TABLES is related to?

- A. BTASLE
- B. BATSEL
- C. BPOUYT
- D. BFGRTY

Ans: B

9. If CALM is written as LKZB, YEAR may be written as

- A. CARF
- B. QRWT
- C. ARFC
- D. QZDX

Ans: D

10. What was the day of the week on 17<sup>th</sup> June, 1998?

- A. Sunday
- B. Friday
- C. Wednesday
- D. Tuesday

Ans: C



11. Ram is eighth from left end and is fourth to the left of Shyam who is eighth from right end. Then how many students are there in a row?

- A. 19
- B. 18
- C. 15
- D. 11

Ans: A

11. Starting from the point X, javid walked 15 m towards west. He turned left and walked 20 m. He then turned left and walked 15 m. After this he turned to his right and walked 12 m. How far and in which directions is now Javid from X?

- A. 35 m south
- B. 10m west
- C. 15m east
- D. 32m south

Ans: D

12. 4 2 3 7.5 26.75

- A. 26.75
- B. 15 .56
- C. 13.55
- D. 11

Ans: D

13. Find the odd man out. 253, 136, 352, 324, 631, 244

- A. 324
- B. 136
- C. 352
- D. 631

Ans: A

14. One evening before sunset Renu and Hari were talking to each other face to face. If Hari's shadow was exactly to the right of Hari, which direction was Renu facing?



- A. North
- B. South
- C. West
- D. East

Ans: B

15. If LOWER=37, VOWEL=77 then DOOR=?

- A. 25
- B. 22
- C. 33
- D. 35

Ans: A

17. Pointing to a photograph, a lady tells Praveen, "I am the only daughter of this lady and her son is your maternal uncle." How is the speaker related to Praveen's father

- A. Sister
- B. Grandmother
- C. Mother
- D. Wife

Ans: D

18. 1, 2, 5, 12, 27, 58,?

- A. 250
- B. 121
- C. 211
- D. 170

Ans: B

19. Jaya decided to lend Mercy a sum of Rs. 5000 at the end of some years. The simple interest charged is 15% per annum. Thus, find the number of years Jaya lends the sum of money to Mercy.

I. The total interest at the end of 5 years is Rs.2500.



II. Because of money returned by Mercy to Jaya, Jaya will be able to buy a television of Rs. 9999.

- A. If the data in statement I alone are sufficient to answer the question
- B. If the data in statement II alone are sufficient answer the question
- C. If the data either in I or II alone are sufficient to answer the question;
- D. If the data even in both the statements together are not sufficient to answer the question

Ans: B

Eight persons A,B,C,D,E,F,G,H are sitting in a line, some of them are facing north some of them are facing south. A is second from one end. B is sitting third to the left from A. Neighbour of B facing south. D do not sit at any of the extreme ends. Immediate neighbours of D face North. Immediate neighbours of C faces south. H is third to the left of E. G sits immediate left of F.

20. Which of the following statements is true regarding C?

- A. C faces south
- B. Three persons sit between C and D.
- C. The immediate neighbours of C is A and H
- D. None of the above

Ans: C

21. Who among the following sits between E and C?

- A. H
- B. F
- C. G
- D. A

Ans: A

22. What is the position of G with respect to C?

- A. Third to the right
- B. Cannot be determined
- C. Third to the left
- D. Immediate left

Ans: B



23. Who among the following facing North?

- A. B
- B. D
- C. F
- D. H

Ans: A

24. How many persons are there between C and G?

- A. Two
- B. four
- C. Three
- D. One

Ans: C

25. 7, 4, 5, 9, ? , 52.5, 160.5

- A. 36
- B. 14
- C. 58
- D. 20

Ans: D



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