

Tata Motors Ltd Placement Paper

1. When a no. is multiplied by 13 product consist of all 5□s. The smallest such no. is

- a. 41625
- b. 42135
- c. 42515
- d. 42735
- e. None of these

2. Which of the following countries adopted its new constitution recently ?

- a. Russia
- b. Equadore
- c. South Korea
- d. North Korea
- e. None of these

3. If  $n$  is  $\square$ ve no. then which of the following is least.

- a. 0
- b.  $\square n$
- c.  $2n$
- d.  $n^2$
- e. None of these

4. If  $-1 \leq x \leq 2$  and  $1 \leq y \leq 3$  then least value of  $2y-3x$  is :

- a. 0
- b. -3
- c. -4
- d. -5
- e. None of these

5. Which of the following States introduced a high tech foodgrain rationing system to ensure timely supply of the foodgrains to people living below poverty line ?

- a. Maharashtra
- b. Tamil Nadu
- c. Delhi
- d. West Bengal
- e. Karnataka

6. Total no. of even prime no.□s is :

- a. 0
- b. 1
- c. 2
- d. None
- e. None of these

7. How many No□s B/w 400 and 600 begin with or end with digit 5.

- a. 40
- b. 100
- c. 110

- d. 120
- e. None of these

8. Stephen Harper whose name was in news recently is the □□□.

- a. President of Canada
- b. Prime Minister of Canada
- c. President of Italy
- d. Prime Minister of Switzerland
- e. Foreign Minister of U.S.A.

9. A 2 digit number is formed by either subtracting 16 from 8 times the sum of the digits or by adding 20 to 22 times the difference between difference of digits.find the number?

10. It takes 16 days for 24 men to plough 15 acres of land,the how many days would be required for 32 men to plough 30 acres of land?

11. A Work can be done by 8 men and 10 women in 25 days, the same work can be done by 10 children and 5 women . In how many days 2 children and 3 men can do the same work?

12. One man or two women or three boys can do a work in 44 days then one man, one women and one boy together can finish the same work in -days?

13. 4 years from now ,prakash's age will be 4 times his son's age.12 years from now,he will be 2.5 times his son's age.find their present ages?

14. In how many ways can a lock be opened if that lock has three digit number lock if

- i) the last digit is 9
- ii) and sum of the first two digits is less than or equal to the last digit.

15. If the numerator and denomenator of a certain fraction are increased by 2,the fraction becomes  $\frac{3}{5}$ .If numerator and denomenator are increased by 1,it becomes  $\frac{1}{2}$ .find the fraction?

16. There are 76 persons. 53 can read hindu,46 can read times,39 can read deccan and 15 can read all.If 22 can read hindu and deccan and 23 can read deccan and times then what is the number of persons who read only times and hindu ?

17. In pure milk if 20% replaced by water and in this again 20% is replaced by water and again 20% is replaced by water then what is the proportion of milk in that mixture?

18. After 10 years A will be twice the age of B before 10 years.and now if the difference is 9 years between them then what is the age of B after 10 years?

19. What is the sum of all the four digit numbers formed using the digits 0, 1, 2 and 3. None of the two digits should be repeated.

20. a right angled triangle, the square of the hypotenuse is twice the product of the other two sides. Then one of the acute angles of the triangle is□ a) 45° b) 30° c) 60° d) 150°

21. There are two square rooms. Both are of same height. The second room is 5m longer than the first room. The rate for papering the walls is 10 paisa per square meter. The total cost for papering the rooms is Rs 60 and Rs 80. What is the height of the rooms.

22. There are two numbers in the ratio 8:9. if the smaller of the two numbers is increased by 12 and the larger number is reduced by 19 thee the ratio of the two numbers is 5:9. Find the larger number.

23. In class of 10 students, the teacher writes a number on the board. The first student tells that the number is divisible by 1, the second student tells that the number is divisible by 2, the third by 3, the forth by 4 and so on till 10. If the statement of one of the students in wrong then what is the least number possible.

24. The first and the last sentences of a set of sentences are given. The middle four sentences are in jumbled form we have to select the order in which the sentences are to be placed so that they convey a meaningful message.

25. A passage with two paragraphs is given. Then two questions are asked based on it. Could not remember it.

26. A stamp collector arranges his stamps during his free time. When he arranges his stamps in pairs, there is one stamp left. It is the same when he arranges the stamps in groups of 3, 4, 5 and 6. Now, how many stamps will he be left with when he arranges them in groups of 8.

27. A certain number of men can finish a piece of work in 10 days. If however there were 10 men less it will take 10 days more for the work to be finished. How many men were there originally?

- (A) 110 men
- (B) 130 men
- (C) 100 men
- (D) none of these

28. In simple interest what sum amounts of Rs.1120/- in 4 years and Rs.1200/- in 5 years ?

- (A) Rs. 500
- (B) Rs. 600
- (C) Rs. 800
- (D) Rs. 900

### Tata Motors Ltd Aptitude Questions

1. Three numbers are in the ratio of 3: 4 :5 respectively. If the sum of the first and third numbers is more than the second number by 52, then which will be the largest number?

- (A) 65
- (B) 52

- (C) 79
- (D) 63
- (E) None of these

2. The compound interest on a certain amount for 2 years at the rate of 8 p.c.p.a. is Rs.312. What will be the simple interest on the same amount and at the same rate and same time?

- (A)Rs. 349.92
- (B) Rs. 300
- (C)Rs. 358.92
- (D) Rs. 400
- (E) None of these

3. The length of a rectangle exceeds its breadth by 7 cms. If the length is decreased by 4 cm. and the breadth is increased by 3 cms., then the area of the new rectangle will be the same as the area of the original rectangle. What will be the perimeter of the original rectangle?

- (A)45 cms.
- (B)40 cms.
- (C)50 cms.
- (D)55 cms.
- (E)None of these

4. The sum of the digits of a two digit number is 12. If the new number formed by reversing the digits is greater than the original number by 54, then what will be the original number?

- (A)28
- (B) 48
- (C)39
- (D) 93
- (E) None of these

5. In a fraction, twice the numerator is two more than the denominator. If 3 is added to the numerator and the denominator each, then the resultant fraction will be  $\frac{2}{3}$  .What was the original fraction ?

- (A)5/18
- (B)6/13
- (C)13/6
- (D)7/12
- (E) None of these

6. Four-fifth of a number is 10 more than two-third of the same number. What is the number?

- (A) 70
- (B) 75
- (C) 69
- (D) 85
- (E) None of these

7. A shopkeeper purchased 200 bulbs for Rs. 10 each. However, 5 bulbs were fused and had

to be thrown away. The remaining were sold at Rs. 12 each. What will be the percentage profit?

- (A) 25
- (B) 15
- (C) 13
- (D) 17
- (E) None of these

8. What should come in the place of question mark (?) in the number series given below?  
25, 34, 52, 79, 115, ?

- (A) 160
- (B) 140
- (C) 153
- (D) 190
- (E) None of these

9. What number should replace both the question marks (?) in the following question ?  
 $?\div 144 = 49 \div ?$

- (A) 95
- (B) 76
- (C) 82
- (D) 84
- (E) None of these

35. The sum of three consecutive even numbers is 252. What is the sum of the smallest and the largest numbers?

- (A) 158
- (B) 148
- (C) 168
- (D) 198
- (E) None of these

10. Ajay spends 25% of his salary on house rent, 5% on food, 15% on travel, 10% on clothes and the remaining amount of Rs. 27,000 is saved. What is Ajay's income?

- (A) Rs. 60,000
- (B) Rs. 80,500
- (C) Rs. 60,700
- (D) Rs. 70,500
- (E) None of these

37. In how many different ways, can the letters of the word "CRISIS" be arranged ?

- (A) 150
- (B) 240
- (C) 120
- (D) 200
- (E) None of these

11. At each corner of a square park with side equal to 40 m, there is a flower bed in the form of a sector of radius 14 m. What is the area of the remaining part of the park?

- (A) 984 Square m
- (B) 789 Square m
- (C) 1014 Square m
- (D) 1024 Square m
- (E) None of these

39. The length of a rectangular field is thrice its breadth. If the cost of cultivating the field at Rs. 367.20 per square meter is Rs. 27,540, then what is the perimeter of the rectangle?

- (A) 47m
- (B) 39m
- (C) 52m
- (D) 40m
- (E) None of these

12. If the fractions  $\frac{8}{5}, \frac{7}{2}, \frac{9}{5}, \frac{5}{4}, \frac{4}{5}$  are arranged in descending order of their values, which one will be fourth?

- (A)  $\frac{4}{5}$
- (B)  $\frac{5}{4}$
- (C)  $\frac{9}{5}$
- (D)  $\frac{8}{5}$
- (E)  $\frac{7}{2}$

13. The present ages of Chetna and Shikha are in the ratio of 5 : 7 respectively. After 7 years, their ages will be in the ratio of 11 : 14 respectively. What is the difference between their ages?

- (A) 9 years
- (B) 4 years
- (C) 5 years
- (D) 7 years
- (E) None of these

14. If 13 men can complete a piece of work in 36 days, then in how many days will 18 men complete the same work?

- (A) 16 days
- (B) 20 days
- (C) 26 days
- (D) 30 days
- (E) None of these

15. If the area of a circle is 75.44 square cm then what is the circumference of the circle?

- (A) 29.2 cm
- (B) 28.9 cm
- (C) 30.8 cm
- (D) 40.2 cm
- (E) None of these

16. Girish started a business investing Rs. 45,000. After 3 months, Vijay joined him with a capital of Rs. 60,000. After another 6 months, Ankush joined them with a capital of Rs. 90,000. At the end of the year, they made a profit of Rs. 16,500. What is Girish's share of

profit ?

- (A) Rs. 5,500
- (B) Rs. 6,000
- (C) Rs. 6,600
- (D) As. 5,900
- (E) None of these

17. What is the average age of a family of five members, whose ages are 42, 49, 56, 63 and 35 years respectively?

- (A) 60 years
- (B) 49 years
- (C) 45 years
- (D) 58 years
- (E) None of these

18. A and B are two taps which can fill a tank individually in 10 minutes and 20 minutes respectively. However, there is a leakage at the bottom which can empty a filled tank in 40 minutes. If the tank is empty initially, how much time will both the taps take to fill the tank (leakage is still there) ?

- (A) 8 minutes
- (B) 7 minutes
- (C) 10 minutes
- (D) 15 minutes
- (E) None of these

19. What is 50% of 40% of Rs. 3,450?

- (A) Rs. 690
- (B) As. 520
- (C) Rs. 517.5
- (D) Rs. 499.2
- (E) None of these

20. If an amount of Rs. 5,86,700 is distributed equally amongst 25 persons, then how much would each person get?

- (A) Rs. 2,54,876
- (B) Rs. 2,34,68
- (C) Rs. 3,74,20
- (D) Rs. 1,95,62
- (E) None of these

21. An urn contains 9 blue, 7 white and 4 black balls. If 2 balls are drawn at random, then what is the probability that only one ball is white?

- (A)  $\frac{71}{190}$
- (B)  $\frac{121}{190}$
- (C)  $\frac{91}{190}$
- (D)  $\frac{93}{190}$
- (E) None of these

22. If the price of 5 transistors and 2 pen stands is Rs. 810, then what will be the price of 7

transistors and 9 pen stands?

- (A) Rs. 1,320
- (B) Rs. 1,500
- (C) Rs.1,150
- (D) Cannot be determined
- (E) None of these

23. six members of a family are travelling these are a,b,c,d,e, and f. b is the son of c but c is not mother of b. a and c are a married couple, e is the brother of c. d is the daughter of a. f is the brother of b.who is the wife of e:

- (a) a
- (b) f
- (c) b
- (d) cant be determined

24. six members of a family are travelling these are a,b,c,d,e, and f. b is the son of c but c is not mother of b. a and c are a married couple, e is the brother of c. d is the daughter of a. f is the brother of b. which of following is pair of female

- (a) ae
- (b) bd
- (c) df
- (d) ad

25. six members of a family are travelling these are a,b,c,d,e, and f. b is the son of c but c is not mother of b. a and c are a married couple, e is the brother of c. d is the daughter of a. f is the brother of b. how is e related to d:

- (a) father
- (b) brother
- (c) uncle
- (d) none of these

Tata Motors Ltd Candidate Experience

Graduate Engineer Trainee Interview Experience

I applied through college . The process took a week I interviewed at Tata Motors in December 2014. Tata motors had started its selection process on December 1, 2014. They had taken an aptitude test which was conducted by AMCAT. Written test was easy, contained 4 sections, quat, verbal, technical and logical reasoning, there was no negative marking, and questions appeared only once in the screen, there was no option of switching back to previous question.



Tata motors had visited our campus on December 6,2014.They had a 30 minute ppt.Then,then they announced the result of selected candidate for interview, out of 15 much students, they had selected only 8,out of which 7 got placed.

After the ppt session, interview had been started. I was the first candidate to be interviewed. The panel consisted of three members 1 HR and 2 technical. Interview started with the same traditional question, "why do you want to join the company?"Then, they asked me question related manufacturing. After that, we had a long discussion about my project and intern. Since, I was a member of SAE India, they asked me few question regarding my contribution.

Overall, I answered the question satisfactorily, but I also consider that I was unable to impress them, sometimes your luck plays a big role. So, never lose a hope, anything can happen in interviews, always be optimistic.