

TATA STEEL PLACEMENT QUESTIONS:-

IT CONTAINS QUESTIONS FROM DIFFERENT SECTION

1. 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?

2. 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?

3. 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?

4. 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?

5. 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?

6. 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.

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

8. 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 ?

9. 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?

10. 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?

11. 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.

12. 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°

13. 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 paise per square meter. The total cost for papering the rooms is Rs 60 and Rs 80. What is the height of the rooms.

14. 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 then the ratio of the two numbers is 5:9.

Find the larger number.

15. 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 fourth by 4 and so on till 10. If the statement of one of the students is wrong then what is the least number possible.

16. 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.

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

18. 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.

19. 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

20. 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

21. Praveen's present age is twice that of Mahesh's age 4 yrs ago. Praveen would be twice as old as Mahesh today. Find sum of their present ages?

22. The cost of 2 balls, 3 bats and 8 pair of gloves is 2500. While cost of 4 balls, 5 bats and 10 pair of gloves is 4000. Find cost of each bat?

23. From a 20 l mixture containing milk and water in the ratio 3:5, 4 litres of mixture is replaced with 4 litres of water. Then what is the final ratio of milk and water?

24. The cost of 4 apples is equal to the selling price of 6 apples. Find the profit/loss percentage?

25. Nikhil bought 12 kg of cashew for Rs.360. He was forced to sell them at a loss of as much money as the selling price of 3kg. Find his selling price?

26. If a sum of money compound annually amounts of thrice itself in 3 years. In how many years will it become 9 times itself.

- (A) 6
- (B) 8
- (C) 10
- (D) 12

27. Two trains move in the same direction at 50 kmph and 32 kmph respectively. A man in the slower train observes the 15 seconds elapse before the faster train completely passes by him.

What is the length of faster train ?

- (A) 100m
- (B) 75m
- (C) 120m
- (D) 50m

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29. How many meshes are there in 1 square meter of wire gauge if each mesh is 8mm long and 5mm wide ?

- (A) 2500
- (B) 25000
- (C) 250
- (D) 250000

30.  $x\%$  of  $y$  is  $y\%$  of ?

(A)  $x/y$

(B)  $2y$

(C)  $x$

(D) can't be determined

31. The price of sugar increases by  $20\%$ , by what % should a housewife reduce the consumption of sugar so that expenditure on sugar can be same as before ?

(A)  $15\%$

(B)  $16.66\%$

(C)  $12\%$

(D)  $9\%$

32. A man spends half of his salary on household expenses,  $1/4$ th for rent,  $1/5$ th for travel expenses, the man deposits the rest in a bank. If his monthly deposits in the bank amount 50, what is his monthly salary ?

(A) Rs.500

(B) Rs.1500

(C) Rs.1000

(D) Rs. 900

33. A man leaves office daily at 7pm. a driver with car comes from his home to pick him from office and bring back home. One day he gets free at 5.30 and instead of waiting for driver he starts walking towards home. In the way he meets the car and returns home on car. He reaches home 20 minutes earlier than usual. In how much time does the man reach home usually?

(A) 1 hr 20 min (B) 1 hr (C) 1 hr 10 min (D) 55 min

34. If  $m:n = 2:3$ , the value of  $3m+5n/6m-n$  is

(A)  $\frac{7}{3}$  (B)  $\frac{3}{7}$  (C)  $\frac{5}{3}$  (D)  $\frac{3}{5}$

35. A dog taken four leaps for every five leaps of hare but three leaps of the dog is equal to four leaps of the hare. Compare speed?

(A) 12:16 (B) 19:20 (C) 16:15 (D) 10:12

36. there are 6 keys and 6 locks. then number of combinations to be tried out to get the actual solution

37. choosing 2 people out of 10 in how many combinations can a particular person (some name) be always included....

38. from 6 white balls and 7 black balls probability that 2 balls drawn at random are of the same color?

39. if a sales man gets successive gain of 15% and 20% then his actual gain?

ans. 38

40. A person starts with the speed of  $\frac{u}{1}$  kmph and returns with the speed of  $\frac{u}{2}$  kmph, what is his average speed.

41. A cistern will be filled in 9 hrs, but becoz of an outlet it is filled in 10 hrs, if the cistern is filled, then how much time the outlet takes to empty the cistern.

42. Food is sufficient for 100men for 60days. For how many days the food is sufficient for 500men?

43. If 8men 8hrs per day works for 8days get 45/- then how many men required if the work is 5hrs per day for 10days they get 60/-?

44. Avg age of X number of adults in a class is 30yrs. If 12 new adults with avg age of 32 joined with them then the avg age increases by one. Find X?

45. Write a Program find and replace a character in a string.

46. Write a Program function to perform the subtraction of two .Eg:char N1="123",N2="478", N3=-355(N1-N2).

47. Write a Program dynamically initialize a 2 dimensional array Eg:5x20,accept strings and check for vowels and display the no. finally free the space allocated .

48. Write a Program read a line from file from location N1 to N2 using command line arguments Eg:exe 10 20 a.c

49. Write a Program find the largest of 4 no using macros.

50. What is not true about the following statements about java.

- a) it is compiled using javac compiler
- b) the compiled files have .class extension.
- c) such files cannot be transferred from one comp to another.
- d) they use the java interpreter

51. Why is the synchronize used?

- a) to initialize multiple objects
- b) to lock an object
- c) option 3
- d) option 4

8. Piggy backing is a technique for

- a) Flow control
- b) sequence
- c) Acknowledgement
- d) retransmission

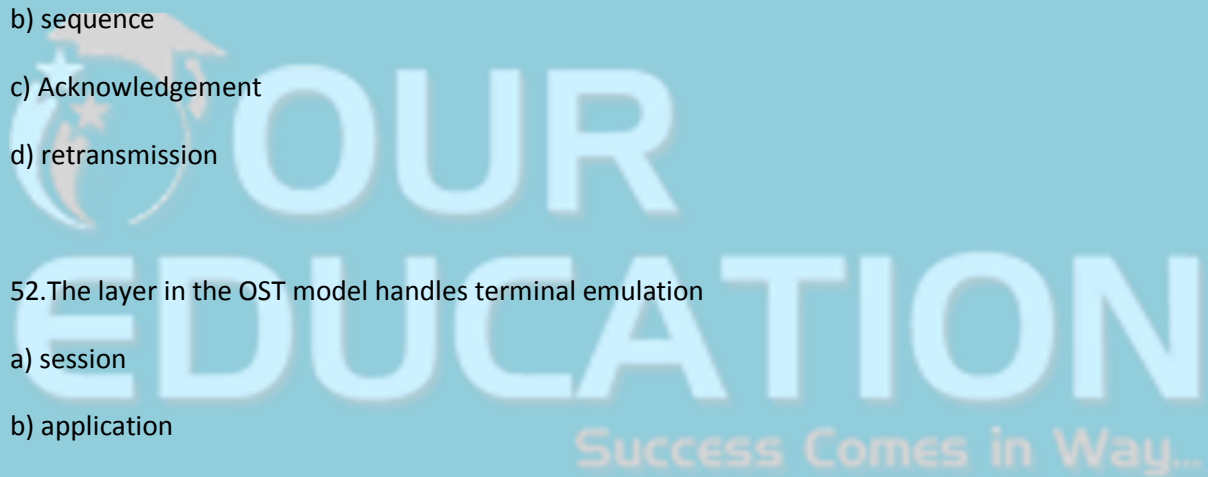
52. The layer in the OST model handles terminal emulation

- a) session
- b) application
- c) presentation
- d) transport

53. In signed magnitude notation what is the minimum value that can be represented with 8 bits

- a) -128
- b) -255
- c) -127
- d) 0

54. There is an employer table with key feilds as employer no. data in every n throw are needed for a simple following queries will get required results.



a) select A employee no. from employee A , where exists from employee B where A employee no.  $\geq$  B employee having  $(\text{count}(\ast) \bmod n) = 0$

b) select employee no. from employee A, employee B where A employee no.  $\geq$  B employ no. grouply employee no. having  $(\text{count}(\ast) \bmod n = 0)$

c) both a& b

d) none of the above

55. Type duplicates of a row in a table customer with non-uniform key field customer no. you can see

a) delete from customer where customer no. exists ( select distinct customer no. from customer having count )

b) delete customer a where customer no. in b rowid

c) delete customer a where customer no. in ( select customer no. from customer a, customer b )

d) none of the above

56. Find the odd one out: 8 125 512 729?

57. Number of zeros between 0 and 10000

58. if 85% of the population of an ant colony is red, and of these 45% are females, then what % of the total ant population are male red ants?

a.46.75(ans) b.40 c.33.66 d.66.66

59. what is the cost price of an article sold at rs.199 after two successive discount of 10% and 15%?

a.260(ans) b.200 c.234 d.220

60. if A and B can do a piece of work in 10 days and A alone can do it in 15 days, how long will B take to do it?

a.25 b.20 c.15 d.30

61. Q is not equal to zero and  $k = (Q \times n - s)/2$  find n?

(a)  $(2 \times k + s)/Q$

(b)  $(2 \times s \times k)/Q$

(c)  $(2 \times k - s)/Q$

(d)  $(2 \times k + s \times Q)/Q$  (e)  $(k + s)/Q$



62. If B occurs which must occur

- (a) D
- (b) D and G
- (c) G and H
- (d) F and G
- (e) J

63. If J occurs which must have occurred

- a) E
- (b) either B or C
- (c) both E & F
- (d) B
- (e) both B & C

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

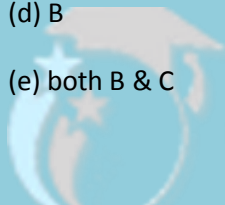
- a. 41625
- b. 42135
- c. 42515
- d. 42735
- e. None of these

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

- (A) Russia
- (B) Equadore
- (C) South Korea
- (D) North Korea
- (E) None of these

66. If  $n$  is  $-ve$  no. then which of the following is least.

- a. 0



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- b.  $-n$
- c.  $2n$
- d.  $n^2$
- e. None of these

67. 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

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

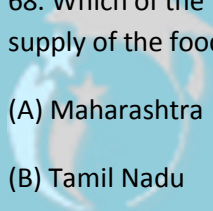
- (A) Maharashtra
- (B) Tamil Nadu
- (C) Delhi
- (D) West Bengal
- (E) Karnataka

69. Total no. of even prime no.'s is :

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

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

- a. 40
- b. 100
- c. 110
- d. 120



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e. None of these

71. 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.

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