Sample Maveric Systems Placement Papers

Maveric Placement Paper Apptitude :

1. The largest 4 digit number exactly divisible by 88 is:

A. 9944 B. 9768 C. 9988 D. 8888

2. One pipe can fill a tank three times as fast as another pipe. If together the two pipes can fill the tank in 36 minutes, then the slower pipe alone will be able to fill the tank in:

A. 81 min. B. 108 min. C. 144 min. D. 192 min.

3. A large tanker can be filled by two pipes A and B in 60 minutes and 40 minutes respectively. How many minutes will it take to fill the tanker from empty state if B is used for half the time and A and B fill it together for the other half?

A. 15 min B. 20 min C. 27.5 min D. 30 min

4. The H.C.F. of two numbers is 23 and the other two factors of their L.C.M. are 13 and 14. The larger of the two numbers is:

A. 276 B. 299 C. 322 D. 345

5. Let N be the greatest number that will divide 1305, 4665 and 6905, leaving the same remainder in each case. Then sum of the digits in N is:

A. 4 B. 5 C. 6 D. 8

6. A train can travel 50% faster than a car. Both start from point A at the same time and reach point B 75 kms away from A at the same time. On the way, however, the train lost about 12.5 minutes while stopping at the stations. The speed of the car is:

A. 100 kmph B. 110 kmph C. 120 kmph D. 130 kmph

7. Tea worth Rs. 126 per kg and Rs. 135 per kg are mixed with a third variety in the ratio 1 : 1 : 2. If the mixture is worth Rs. 153 per kg, the price of the third variety per kg will be: A. Rs. 169.50 B. Rs. 170 C. Rs. 175.50 D. Rs. 180

8. A vendor bought toffees at 6 for a rupee. How many for a rupee must he sell to gain 20%?

A. 3 B. 4 C. 5 D. 6

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9. Out of 7 consonants and 4 vowels, how many words of 3 consonants and 2 vowels can be formed?

A. 210 B. 1050 C. 25200 D. 21400

10. The average weight of A, B and C is 45 kg. If the average weight of A and B be 40 kg and that of B and C be 43 kg, then the weight of B is:

A. 17 kg B. 20 kg C. 26 kg D. 31 kg

11. A father said to his son, "I was as old as you are at the present at the time of your birth". If the father's age is 38 years now, the son's age five years back was:

A. 14 years B. 19 years C. 33 years D. 38 years

12. A train running at the speed of 60 km/hr crosses a pole in 9 seconds. What is the length of the train?

A. 120 metres B. 180 metres C. 324 metres D. 150 metres

13. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C?

A. Rs. 375 B. Rs. 400 C. Rs. 600 D. Rs. 800

14. A and B invest in a business in the ratio 3 : 2. If 5% of the total profit goes to charity and A's share is Rs. 855, the total profit is:

A. Rs. 1425 B. Rs. 1500 C. Rs. 1537.50 D. Rs. 1576

15. The cost price of 20 articles is the same as the selling price of x articles. If the profit is 25%, then the value of x is:

A. 15 B. 16 C. 18 D. 25

16. FAG, GAF, HAI, IAH, _____ A. JAK B. HAL C. HAK D. JAI 17. SCD, TEF, UGH, _____, WKL A. CMN B. UJI C. VIJ D. IJT

18. If a person walks at 14 km/hr instead of 10 km/hr, he would have walked 20 km more. The actual distance travelled by him is:

A. 50 km B. 56 km C. 70 km D. 80 km

19. In a shower, 5 cm of rain falls. The volume of water that falls on 1.5 hectares of ground is:

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A. 75 cu. m B. 750 cu. m C. 7500 cu. m D. 75000 cu. m

20. A sum of money at simple interest amounts to Rs. 815 in 3 years and to Rs. 854 in 4 years. The sum is:

A. Rs. 650 B. Rs. 690 C. Rs. 698 D. Rs. 700

Technical Interview Questions

1. Which is the parameter that is added to every nonstatic member function when it is called?
2. What is a binary semaphore? What is its use?
3. What is thrashing?
4. What are turnaround time and response time?
5. What is data structure?
6. List out the areas in which data structures are applied extensively?
7. What is a DBMS, query, SQL?
8. What is the difference between primary and foreign key?
9. What is XML?
10. Explain that why C is procedural?
11. What are the different phases of a compiler?
12. What is TDM?
13. What is normalization? Explain its different types?
14. Explain what do you mean by functional overloading?
15. Define Routing Algorithm?