

Sample MSCS/MSDS/PhDCS Entry Test

1. Suppose Rs.15,000 is deposited into a savings account that earns simple interest at an annual rate of 10%. How much will be in the account after 5 years?

A. 21,000
B. 22,000
C. 22,500
D. 23000
E. 24000

2. The price of a house is Rs.1 million. And, the buyer also has to pay 10% of the price as purchasing tax. After these two payments, the buyer also has to pay 10% of allocation tax on the new price (actual price + purchasing tax). What the full amount in rupees the buyer has to pay?

A. 120,00,00
B. 121,00,00
C. 122,00,00
D. 123,00,00
E. 124,00,00

3. What is the time complexity of fun()?

```
int fun(int n)
{
    int count = 0;
    for (int i = 0; i < n; i++)
        for (int j = i; j > 0; j--)
            count = count + 1;
    return count;
}
```

A. Theta (n)
B. Theta (n^2)
C. Theta (nlogn)
D. Theta (nlognlogn)
E. None of the above

4. Which of the following is the correct way to ask for any 4 letter value?

- A. Like(4)
- B. Like////
- C. Like_____
- D. Like^^^^
- E. None of the above

5. The maximum depth to which the alpha-beta pruning can be applied?

- A. Six states
- B. Eight states
- C. Six states
- D. Ten states
- E. Any depth

6. A communication pathway that transfer data from one point to another is called.

- A. Link
- B. Node
- C. Medium
- D. Topology
- E. None of the above

7. Multiprogramming of the computer system increase.

- A. Memory
- B. Storage
- C. CPU Utilization
- D. Cost of computation
- E. All of the above