

## Sample MSCS/MSDS 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