

AMRIT CAMPUS
Mid-Term Exam-2075

BSc CSIT/Frist Semester/Computer Programming

Candidates are required to answer the questions in their own words as far as practicable

Full Marks: 60

Pass Marks: 24

Time: 3 hrs

Set "A"

Long Answer Questions

Attempt any 2 questions

(10X2 = 20)

1. "Size of character array is always declared one more than the input size." Justify the statement. Write a program to accept n numbers and arrange them in ascending order.
2. Write a program that will read the value of x and evaluate the following function
Salary = $4x+100$ for $x < 40$ 300 for $x = 40$ $4.5x+150$ for $x > 40$
Using (a) if/else statements (b) Conditional operator
3. What do you mean by Operators? Explain Logical Operators and Conditional Operators with suitable example of each.

Short Answer Questions

Attempt any 8 questions

(8X5 = 40)

4. What do you mean by Flowchart? Draw a Flowchart to find the largest among three numbers entered by user.
5. Differentiate between Constants and Variables with suitable examples of each.
6. Which of the following loop syntax valid or not & why? Assume all variables to be of integer value.
 - a. for (x=9; x>=0; x=x-1)
 - b. for (n=1, m=50; n<=m; n++, m--)
 - c. for (x=(m+n)/2; x>0; x=x/2)
 - d. for (; m!=100 ;)
 - e. for (x=1; x<20&&sum<100; x++)
7. What do you mean by data types? Explain basic data types with its range of values.
8. What do you mean by Nested If else Statement? Differentiate it with the else if ladder.
9. Find errors, if any, in the following program. Correct it and also rewrite it.

```
#define (studio.h)
float main<>{
    int m [] [] = {{1,2,3,4}};
    for (i=4, i>=0; i--)
        for (j=0, j<4; j++)
            m [i] [j] = a[i][j] + b[i][j];
    return 0.0;
}
```

10. List different statements that provide loop operations. Differentiate between while and do while loop.

11. Write a C program to display the pattern like right angle triangle with a number. (use for loop)

```
1
1 2
1 2 3
1 2 3 4
```

12. Write short notes on:

- i) switch case statements
- ii) break and continue