

## **QUESTION 2008**

### **GROUP – A**

**(Multiple Choice Type Questions)**

1. Choose the correct alternatives for the following:

i) By default, functions are assigned ..... storage class.

- ✓ a) auto                      b) extern                      c) static                      d) register

ii) Maximum number of elements in the declaration `int arr [8] [5];` is

- ✓ a) 40                      b) 13                      c) 3                      d) 39

iii) The default return type of any C function is

- a) a character value
- ✓ c) an integer value

- b) a decimal value
- d) void

iv) When both global and local variables have the same name, will access the

- a) local variable
- c) compilation error

- ✓ b) global variable
- d) none of these

v) A union is a collection of

- ✓ a) heterogeneous elements
- c) specific elements

- b) homogeneous elements
- d) none of these

vi) How many times will the loop be executed?

```
for (i = 1; i <= 10; i++)  
{  
    printf ("Hello" );  
    i += 3;  
}
```

a) 10

b) 4

✓ c) 3

d) none of these

vii) Which operator is not a relational operator?

a) <

b) >

✓ c) ||

d) <=

viii) Which of the following is not a relational operator?

a) +

b) ++

c) \*

✓ d) none of these

ix) In C, size-of is

✓ a) an operator

b) a function

c) a macro

d) none of these

x) Array passed as an argument to a function is interpreted as

a) maximum number of elements that the array can hold

b) value of the first element of the array

✓ c) address of the first element of the array

d) none of these

### GROUP - B

(Short Answer Type Questions)

2. Draw a flow-chart of the factorial of a user given number.

See Topic: INTRODUCTION, Short Answer Type Question No. 2.

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3. Write a program to add the following series:

$$1 + 2/2! + 3/3! + \dots + n/n!, \text{ value of } n \text{ given by user.}$$

See Topic: FLOW OF CONTROL, Long Answer Type Question No. 12.

4. Write short notes on continue and break statements.

See Topic: FLOW OF CONTROL, Long Answer Type Question No. 22.

5. What is loop? Discuss various types of loop used in C.

1<sup>st</sup> Part: See Topic: FLOW OF CONTROL, Short Answer Type Question No. 4.

2<sup>nd</sup> Part: See Topic: FLOW OF CONTROL, Long Answer Type Question No. 3.

6. What are keywords and Identifiers? What is ternary operator?

See Topic: OPERATORS, EXPRESSIONS & MANAGING INPUT OUTPUT, Short Answer Type Question No. 6 & 1.

### GROUP - C

(Long Answer Type Questions)

7. a) What do you mean by algorithm?

b) Explain the properties of algorithm.

c) How does an algorithm differ from a pseudo-code?

d) Design a flow-chart to find out the maximum of n numbers.

e) Illustrate decision table by a suitable example.

See Topic: INTRODUCTION, Long Answer Type Question No. 3.

8. a) What do you mean by recursion?

b) Write a recursive function in C to produce n<sup>th</sup> Fibonacci number.

c) What are the major drawbacks of using recursion?

d) What is preprocessor directive?

e) Differentiate between function and macro in C.

See Topic: FUNCTIONS, Short Answer Type Question No. 10, 1, 10, 15, 4.

9. a) Why is nesting if-else loop used?

b) What do you mean by high level language?

c) What is string. h?

d) Write down a C-program to find out the summation of following series:

$$(1) + (1+2) + (1+2+3) + \dots + (1+2+3+4 + \dots + n)$$

a) See Topic: FLOW OF CONTROL, Short Answer Type Question No. 5.

b) See Topic: INTRODUCTION, Short Answer Type Question No. 3.

c) See Topic: FUNCTIONS, Short Answer Type Question No. 14.

d) See Topic: FLOW OF CONTROL, Long Answer Type Question No. 13.

## INTRODUCTION TO PROGRAMMING

10. a) What is the difference between structure and union?

b) What is global declaration?

c) What is expression?

d) Write a program which will merge the content of two files and copy into another blank file.

a) See Topic: **STRUCTURES AND UNIONS**, Long Answer Type Question No. 1(c).

b) See Topic: **FUNCTIONS**, Short Answer Type Question No. 15.

c) See Topic: **OPERATORS, EXPRESSIONS & MANAGING INPUT OUTPUT**, Short Answer Type Question No. 7.

d) See Topic: **FILES**, Long Answer Type Question No. 2.

11. Discuss various operators used in C. Write a program in C to print all numbers between 100 and 200, which are divisible by 5 but not divisible by 15.

See Topic: **OPERATORS, EXPRESSIONS & MANAGING INPUT OUTPUT**, Long Answer Type Question No. 4.