

Time Allowed : 3 Hrs.

MM:100

Section -A**Note: Multiple Choice questions. All questions are compulsory.****10x1=10**

- Q1. Who is the father of C language?
 a) Steve Jobs b) James Gosling
 c) Dennis Ritchie d) Rasmus Lerdorf
- Q2. Which of the following is not a valid C variable name?
 a) int number; b) float rate;
 c) int variable_count; d) int \$main;
- Q3. All keywords in C are in ____
 a) LowerCase letters b) UpperCase letters
 c) CamelCase letters d) None of the mentioned
- Q4. In which year C was developed?
 a) 1972 b) 1981
 c) 1992 d) 1995
- Q5. What is an example of iteration in C?
 a) for b) while
 c) do-while d) all of the mentioned
- Q6. Functions in C Language are always ____
 a) Internal b) External
 c) Both Internal and External d) External and Internal are not valid terms for functions
- Q7. The standard header ____ is used for variable list arguments (...) in C.
 a) <stdio.h > b) <stdlib.h>
 c) <math.h> d) <stdarg.h>
- Q8. What will be the final value of x in the following C code?

```
#include <stdio.h>
void main()
{ int x = 5 * 9 / 3 + 9; }
```

 a) 3.75 b) Depends on compiler
 c) 24 d) 3
9. User defined data type can be derived by
 a) Struct b) Enum
 c) typedef d) All of the above
10. goto can be used to jump from main() to within a function.
 a) True b) False
 c) Depends d) Varies

Section-B**Note: Objective type questions. All questions are compulsory.****10x1=10**

- Q11 Array of character is called_____

- Q12 Name any five escape sequences.

- Q13 Scanf() is user defined function. (True/False)

- Q14 A single dimensional array has _____ number of subscript.

- Q15 Which keyword is used to declare union in C ?

- Q16 What do you mean by reserved word?

- Q17 What is initialization of a variable?
Q18 Define global variable.
Q19 What is nested loop?
Q20 What is the subscript of the first element of array?

Section -C

Note: Short answer type Questions. Attempt any twelve questions out of fifteen questions. **12x5=60**

- Q21 Define Flowchart. Explain various symbols used in flowchart.
Q22 How to create a structure?
Q23 Write down the difference between actual parameters and formal parameters.
Q24 Write any five benefits of using pointer.
Q25 List any five characteristics of C.
Q26 What is single dimensional array? How it is declared and initialized?
Q27 Explain increment and decrement operators.
Q28 What is function prototype? Write down its syntax.
Q29 Define recursion. Write a program for finding factorial of a number using recursion.
Q30 Difference between break & continue statement.
Q31 Write a program to add two matrices.
Q32 Differentiate between while and do while loops.
Q33 Differentiate between call by value and call by reference.
Q34 Write note on Program debugging.
Q35 How to initialize structure members?

Section-D

Note: Long answer questions. Attempt any two questions out of three questions.

2x10=20

- Q36 Differentiate for loop, while loop and do while loop by giving examples.
Q37 What is pointer? How it is declared and initialized? What are the benefits of pointer?
Q38 Explain the method of declaring structure and its variables.