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Roll No.

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4th Sem / Branch : Mechatronics

Subject:- Computer Programming & Application

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Printf() is a predefined function in _____ header file.
a) stdlib.h b) ctype.h
c) stdio.h d) stdarg.h
- Q.2 Who is known as the Father of C?
a) Rasmus Lerdorf b) William Makepiece
c) Dennis Ritchie d) List Barely
- Q.3 How many keywords are there in C language?
a) 24 b) 32
c) 33 d) None
- Q.4 Which of the following is not a valid C variable name?
a) int number b) int variable _count;
c) float rate; d) int\$main;
- Q.5 C is a _____
a) Low level language
b) High level language
c) None of above
d) Middle level language

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- Q.6 Which operator is used to find the remainder of two numbers in C?

a) \ b) //
c) None of the above d) %

- Q.7 Which of these is an exit-controlled loop?

a) for b) do..while
c) while d) if

- Q.8 A string is terminated by _____

a) Newline('\n') b) Whitespace
c) Null ('\0') d) None of the above

- Q.9 Which of these is not a valid parameter passing method in C?

a) Call by value b) Call by reference
c) Call by pointer d) All of the above

- Q.10 Before using a pointer variable, it should be _____

a) Declared b) Initialized
c) Both A and B d) None of the above

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 What do you mean by Recursion?
- Q.12 What is pointer?
- Q.13 Define array.
- Q.14 What is operator?
- Q.15 Define Local Variable.
- Q.16 Write the name of two header files.
- Q.17 What is the acronym for ANSI?
- Q.18 What is the maximum length of an identifier?

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- Q.19 What is an infinite loop?
- Q.20 What are the functions to open and close the file in C language?

SECTION-C

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

- Q.21 Write an algorithm to find the SUM and AVERAGE of three numbers.
- Q.22 Describe various steps involved in problem solving of a program.
- Q.23 What is the difference between Array and Structure?
- Q.24 Discuss various features of MATLAB.
- Q.25 Briefly explain Break Statement.
- Q.26 What do you mean by Array? Explain various types of Array in detail.
- Q.27 State five differences between Compiler and Interpreter?
- Q.28 Describe file operations in C language.
- Q.29 Discuss Arithmetic operators used in C language.
- Q.30 Distinguish between Local variable and Global Variable.
- Q.31 Explain storage classes in C programming.
- Q.32 Describe the operations performed on String.
- Q.33 What is Pointer in C programming? Explain its benefits.

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- Q.34 What is the difference between Call by Value and Call by Reference?
- Q.35 What is Function? Explain the need of Function.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 What are the basic Datatypes supported in C Programming Language? Explain in detail.
- Q.37 What is Control Loop? Explain different types loop used in C language with example?
- Q.38 1) Write a program to print the Fibonacci Series.
2) Write a program to find Factorial of a number.

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