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Roll No.

Eltx. Engg., Mechatronics, Med. Eltx.
Subject:- Computer Programming using C/Comp.
Prg. & App.

Time : 3Hrs.

M.M. : 100

SECTION-A

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

- Q.1 What is the valid range of numbers for int type of data?
a) 0 to 256 b) -32768 to +32767
c) -65536 to +65536 d) 0 to 512
- Q.2 Which symbol is used as a statement terminator in C?
a) ! b) #
c) ~ d) ;
- Q.3 What will be the maximum size of a float variable?
a) 1 byte b) 2 bytes
c) 3 bytes d) 4 bytes
- Q.4 Character constants should be enclosed between
a) Single quotes b) Double quotes
c) Both (a) & (b) d) all types of loads
- Q.5 The operator "&" is used for

- a) Bitwise AND b) Bitwise OR
c) Logical AND d) Logical OR

- Q.6 A variable that holds the memory address of another object is called.....
a) Integer b) Constant
c) Pointer d) Memory variable
- Q.7 Which is the correct way to declare a pointer?
a) int_ptr; b) int*ptr;
c) *int ptr; d) None of the above
- Q.8 Which function is used to find the length of the string?
a) Strncpy b) Strnstr
c) Strchr d) Strlen
- Q.9 Which of the following is not a storage class?
a) Auto b) Static
c) External d) Register
- Q.10 A pointer to integer accesses.....of memory
a) 2 bytes b) One byte
c) 4 bytes d) 8 bytes

SECTION-B

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

- Q.11 What is the valid range of numbers for float type of data?

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- Q.12 What do you mean by prefix increment?
- Q.13 What is the use of goto statement?
- Q.14 What is recursion function?
- Q.15 How much memory is used to access a pointer to character?
- Q.16 By which operator, members of a structure can be accessed?
- Q.17 Which function is used to compare two strings?
- Q.18 Which code is used for printing a floating-point?
- Q.19 What is difference between `x++` and `++x`?
- Q.20 What is the difference between `getch` and `getche`?

SECTION-C

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

- Q.21 What do you mean by compiler and interpreter?
- Q.22 Discuss the characteristics of "C".
- Q.23 Write a program in C language to find area of circle.
- Q.24 Explain relational operators used in C.
- Q.25 What do you mean by a function?
- Q.26 Explain the use of switch statement with an example.
- Q.27 Write a program to find greatest of three numbers using if-else statement.
- Q.28 What are the advantages of flow charts?
- Q.29 Explain the various types of storage classes in detail.

- Q.30 Define structure. How it is different from an algorithm?
- Q.31 How a flow chart is different from an algorithm?
- Q.32 Write a short note on break statement.
- Q.33 Discuss various data types used in c language.
- Q.34 Using an example, give the steps involved in algorithm.
- Q.35 Explain function of `scanf ()` and `printf ()` with example.

SECTION-D

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

- Q.36 Write down difference between call by value and call by reference methods of parameter passing.
- Q.37 Explain various operators used in C language.
- Q.38 Write a short note on any two of the following:
 - a) Pointers
 - b) Global and local variables
 - c) String function