

No. of Printed Pages : 4  
Roll No. ....

181034/171034/121034

**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

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- 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.  $(12 \times 5 = 60)$
- 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.  $(2 \times 10 = 20)$
- 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