3rd Sem / Computer engineering / Mechtronics
Subject:- Programming in C

Time : 3Hrs.   M.M. : 100

SECTION-A

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

Q.1 Which symbol is used for value at address
- a)   *
- b)   .
- c)   #
- d)   &

Q.2 Which keyword is used for declaration of structure
- a)   str
- b)   structure
- c)   struct
- d)   strcat

Q.3 The # include < stdio.h> is a _____
- a) Inclusion directive
- b) File inclusion directive
- c) Preprocessor directive
- d) None of the above

Q.4 The global variables are _____.
- a) External
- b) Internal
- c) Both External and internal
- d) None of the above

Q.5 We cannot use the keyword break simply within _____
- a) While
- b) For
- c) if-else
- d) do-while

Q.6 Which of these is NOT a relational or logical operator ?
- a)   =
- b) ||
- c)   ==
- d)   !=

Q.7 Determine the output of the C code mentioned below
```
# include < stdio.h>
{
Float q = 'a';
Print ("%f",q);
return 0;
}
```
- a) run time error
- b) a
- c) 97.000000
- d) a.0000000

Q.8 Comment on the C statement given below

int a[5][0];
- a) 1 D array
- b) 2D array
- c) None of the above

Q.9 A function which get character with echo
- a) getchar ()
- b) getch ()
- c) gets()
- d) getche()

Q.10 Float date type having ___ bytes in memory.
- a) 4
- b) 8
- c) 2
- d) 1

SECTION-B

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

Q.11 Define data type

Q.12 If the base address of an array is 1024 and data type is float then find out the address of eat element of array.

Q.13 What is else if ladder.

Q.14 What is the use of void date type.

Q.15 Name any four types of operators.

Q.16 Write two uses of pointer.

Q.17 What is address operator ?

Q.18 What is pre increment operator .

Q.19 Define two dimensional array .

Q.20 What are header files .

SECTION-C

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

Q.21 What is the difference between getch (), getche (), and getchar () function ?

Q.22 Write about the syntax of switch structure

Q.23 Write a program to find out the largest number between 3 variables.

Q.24 What is the difference between call by value and call by reference?

Q.25 What is argument write down types of arguments ?

Q.26 Explain with an example the concept of recursion.

Q.27 What is array and what are its benefits ?

Q.28 Write about different type specifiers used in C.

Q.29 What is the difference between structure and union ?

Q.30 What is the difference between break and continue statement ?

Q.31 What is the drawbacks of else is clause ?

Q.32 What are header files Explain various header files used in C ?

Q.33 Write a program to swap two numbers by using cal by reference.

Q.34 Write is error Write down various types of errors with suitable examples ?

Q.35 Write down advantages and disadvantages of union

SECTION-D

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

Q.36 Define array write a program to show how one dimensional array is declared . How the data can be insert in an array from the keyboard .

Q.37 Write the similarity and difference between two while and for loop

Q.38 What is the purpose of input and output functions How many types of such functions exist Explain with suitable flow diagram.