USELT14 - Elective-I Paper-II - Electronics : C - Programming-II

P. Pages : 2

Time : Three Hours

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GUG/W/23/13350

Max. Marks : 50

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Notes : 1. All questions are compulsory and carry equal marks.
         2. Use either ANSIC or TURBOC for writing program.

Either:

1. a) What is an array? Explain the syntax, declaration, and initialization of one-dimensional array in the 'C' language. **7**

b) Distinguish between one-dimensional array and two-dimensional array. **3**

OR

c) Explain the return value and their type in user define function with examples. **5**

d) Write a program with multiple functions that do not communicate any data between them. **5**

Either:

2. a) Explain the basic concept of structure. Explain the declaration and initialization of structure in C. **7**

b) Differentiate between structure and union. **3**

OR

c) Explain the declaration and initialization of the pointer variable in C with an example. **6**

d) Write a program using a pointer to determine the length of a character string. **4**

Either:

3. a) Explain the opening and closing of the file with examples. **6**

b) Differentiate between print () and fprintf() **4**

OR

c) Explain fscanf function with example. **5**

d) Write a program to read data form the keyboard, write it to a file called INPUT, again read the same data from the INPUT file, and display it on the screen. **5**

Either:

4. a) Differentiate between procedure- oriented and object-oriented language. **4**

b) Explain: **6**
   i) Object ii) Class
   iii) Inheritance iv) Polymorphism

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OR

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c) Explain operator overloading. **6**

d) Write a C++ program to find the area of the square. **4**

5. Attempt **any ten** of the following. **1x10**

   a) What is user-defined function?

   b) What is the recursive function?

   c) What is multidimensional array?

   d) Define array within structure.

   e) What is a pointer?

   f) What is the utility of a pointer?

   g) What is a command line argument?

   h) List the file mode used in C.

   i) What is a file pointer?

   j) What is the purpose of fseek function?

   k) Differentiate between C and C++.

   l) State the application of Oop's.

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