

B.Sc. T. Y. (CBCS Pattern) Semester-VI
USELT14 - Elective-I Paper-II - Electronics : C - Programming-II

P. Pages : 2

Time : Three Hours



GUG/W/24/13350

Max. Marks : 50

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- Notes : 1. All questions are compulsory and carry equal marks.
2. Use either ANSI 'C' or Turbo 'C' for program writing

Either :

1. a) What is an array and how is an array variable different from an ordinary variable? **10**
Explain one dimensional array with suitable example.

OR

- b) Differentiate between user-defined function and library function. **10**
Explain recursive function with suitable example.

Either :

2. a) What is pointer? Explain with suitable example. State its advantages and disadvantages. **10**

OR

- b) What is UNION? Explain with example. Differentiate between a structure and a union. **10**

Either :

3. a) What is file mode? Write a C – program to create a text files using write (w) and append (a) mode. **10**

OR

- b) Explain the following function with example: **10**

i) fread(), and

ii) f write().

Either :

4. a) Explain the term data encapsulation and highlight the same with respect to the basic unit of programming in an object oriented language such as C++. **6+4**
List benefits of object oriented programming.

OR

- b) Explain the following operators in C++: **6+4**

i) cin &

ii) cout

Write C++ program to find average of three numbers using cin and cout operators.

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

1x10

- a) State syntax for declaring two dimensional array.
- b) What do you mean by a function in 'C'?
- c) What is life time of a variable?
- d) What is structure?
- e) State one example of pointer expression.
- f) What is a null pointer?
- g) What is file?
- h) State function to close a file.
- i) What is command line arguments?
- j) State any two applications of C++.
- k) State any two difference between C & C++.
- l) What is token in C++?
