B.Sc.- III (CBCS Pattern) Semester-VI

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

P. Pages : 1 **GUG/S/25/13350**

Time : Three Hours * 1 7 1 5 * Max. Marks : 50

Notes : 1. All questions are compulsory and carry equal marks.
2. Draw neat and labelled diagrams wherever necessary.

Either :

1. A) Explain the syntax, declaration, and initialization of a one-dimensional array in the 'C' language with a suitable example. **10**

OR

B) Explain the function with no arguments and no return value with examples. Explain the scope and lifetime of the variable in function. **10**

Either :

2. A) What is structure? Explain the declaration and initialization of structure in C. Differentiae between structure and array. **10**

OR

B) What is Pointer? Explain its basic concept. Explain the declaration and initialization of the pointer variable in C with an example. **10**

Either :

3. A) Explain the opening and closing of the file with examples. Explain getc and putc functions in C. **10**

OR

B) Explain error handling during I/O operations. Explain fprint and fscanf functions. **10**

Either :

4. A) Differentiate between C and C++ language. Explain the basic concept of oop and state its application. **10**

OR

B) Explain C++ tokens. Write a C++ program to find the area of the circle. **10**

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

a) What is a user-defined function?
b) State the advantage of function.
c) What is two dimensional array?
d) What is union?
e) State the advantage of the pointer.
f) Differentiate between union and structure.
g) What is a command line argument?
h) List the file mode used in C.
i) What is the purpose of feof()?
j) State the advantages of Oop.
k) State the application of C++.
l) What is identifier in C++?

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