

B.Sc.-II (Information Technology) (CBCS Pattern) Semester - III  
**UBITT301 - Paper-I : Advance C**

P. Pages : 2

Time : Three Hours



**GUG/S/23/10927**

Max. Marks : 40

- 
- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagrams wherever necessary.
  3. Avoid vague answers and write answers relevant and specific to questions only.

**Either**

1. a) What is library function ? Classify categories of functions. 4
- b) Write a function factorial( ) to find factorial of given argument. 4

**OR**

- c) What is function definition ? Explain with syntax and suitable example. 4
- d) Explain storage classes in 'C'. 4

**Either**

2. a) Write a program to design a structure 'Book' with elements : 4  
i) Title      ii) author      iii) Price and create structure variable for same structure
- b) What is enumeration ? Explain. 4

**OR**

- c) A program to define and accept the elements of structure 4  
i) rollno      ii) name      iii) marks of 3 papers.  
Write a program to print total marks and percentage of student.
- d) What is union ? How it is different from structure ? Explain. 4

**Either**

3. a) Explain pointer operator with example. 4
- b) Write a program to find area of circle using pointer. 4

**OR**

- c) Explain the concept of pointer with function. 4
- d) Write a function swap( ) to interchange values of two variables using call by reference concept. 4

**Either**

4. a) What are different file modes while opening file? Explain. 4
- b) Write a program to copy contents of one file to another file. 4

**OR**

- c) Explain the opening and file closing in file handling with example. 4
- d) Write a program to read a file and calculate total number of vowel and consonants in file. 4
5. Attempt **all** the questions.
- a) What is function call ? Explain. 2
- b) Explain period operator. 2
- c) How to declare pointer variable ? Explain. 2
- d) Explain command line arguments. 2

\*\*\*\*\*