

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

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