

B.C.A.- II (CBCS Pattern) Semester-III
UBCAT301 - Paper-I - Advanced C

P. Pages : 2

Time : Three Hours



GUG/S/25/11757

Max. Marks : 40

- Notes :
1. All questions are compulsory and carry equal marks.
 2. Draw neat and labelled diagram and use supporting data whenever necessary.
 3. Avoid vague answer and write specific answer related to question.

Either:

1. a) Give the basic structure of user defined function in detail with suitable example. 4
- b) Write a program in 'C' to find area of a circle using function. 4

OR

- c) What is Nested function in 'C'? Explain with suitable example. 4
- d) Write a program in 'C' to find the addition of two nos using a function with argument and with return value. 4

Either:

2. a) What is structure? What is the need of structure? Explain. 4
- b) Write a program in 'C' to define and accept the elements of structure 4
 - i) Roll No.
 - ii) Name
 - iii) Marks of 3 papers and write the code to print total marks.

OR

- c) Differentiate between structure and union. 4
- d) Define union? Give the characteristic of union in detail. 4

Either:

3. a) What is pointer? Explain how to declare pointer variable and initialize pointer variable with suitable example. 4
- b) Write a program in C to find the product and division of two numbers using pointer. 4

OR

- c) Explain the concept of pointer to pointer in C with suitable example. 4
- d) Write a note on: 4
 - i) malloc()
 - ii) calloc()
 - iii) realloc()
 - iv) free()

Either:

4. a) What is error handling during I/O operations. Explain 4
i) feof(fp)
ii) ferror(fp)
- b) What is file Handling? Explain how to open & close a file with suitable example. 4

OR

- c) What is Random Access to files. Describe 4
i) ftell()
ii) rewind()
- d) Write a program in C to read a file and displays the contents of the file on screen using getc() function. 4
5. Solve all the questions.
- a) Explain the need of user defined function in detail. 2
- b) What is period operator? Explain. 2
- c) Define pointer operator? Explain. 2
- d) Write a note on command line argument. 2
