

B.C.A. - I (CBCS Pattern) Semester-II
UBCAT203 - Paper-III : Fundamental of 'C'

P. Pages : 2

Time : Three Hours



GUG/S/25/11717

Max. Marks : 80

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

Either:

1. a) Define Datatypes. Explain different types of datatypes use in C language. 8
- b) Explain the basic structure of 'C' program using suitable example. 8

OR

- c) Explain the following operator using example. 8
 - i) Arithmetic
 - ii) Assignment
 - iii) Relational
 - iv) Conditional
- d) Write a program in 'C' to swap a content of two variable. 8

Either:

2. a) Explain unformatted output statement using suitable example. 8
- b) Explain the syntax of the function printf() and role of field width in printf() in brief. 8

OR

- c) Explain the purpose of a switch statement using suitable example. 8
- d) Write a program to check whether enter year is leap year or not. 8

Either:

3. a) Explain for loop in detail using suitable example. 8
- b) Explain the following statements- 8
 - i) Break
 - ii) Continue

OR

- c) Write a program to check a number is palindrome or not. 8
- d) Explain the following- 8
 - i) Infinite Loop
 - ii) Goto Statement

Either:

- 4. a) What is an array explain different types of arrays. Explain any one type using suitable example. 8
- b) What is searching? Explain any one type of searching technique using suitable example. 8

OR

- c) Write a program to transpose the matrix of size $m \times n$. 8
- d) Explain the following- 8
 - i) strcpy() ii) strlen()
 - iii) strcmp() iv) strrev()

5. Solve all the questions.

- a) Explain the tokens in detail. 4
- b) Write a short note on Backslash character. 4
- c) Difference between while & Do-while statement. 4
- d) Explain Bound checking in detail. 4
