

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

P. Pages : 2

Time : Three Hours



**GUG/S/23/11717**

Max. Marks : 80

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

**Either:**

1. a) Explain **any two** of the following. 8
- |             |                |
|-------------|----------------|
| a) Keywords | b) Identifiers |
| c) Token    | d) Constant    |
- b) What are datatypes? Explain different datatypes supported by C language. 8

**OR**

- c) What is type casting? Explain it with suitable example. 8
- d) Explain the various mathematical function supported by 'C'. 8

**Either:**

2. a) What is control string? List the various control string used in Scanf( ) statement. 8
- b) Explain if - else statement and else-if ladder? Explain with suitable example. 8

**OR**

- c) Explain the following 8
- |              |                |
|--------------|----------------|
| i) getch( )  | ii) getchar( ) |
| iii) putchar | iv) putchar( ) |
- d) Write a program to find largest number among 5 numbers. 8

**Either:**

3. a) Explain for loop using suitable example. 8
- b) Write a difference between while and do-while loop using suitable example. 8

**OR**

- c) Explain the following 8
- |            |             |
|------------|-------------|
| i) goto( ) | ii) exit( ) |
|------------|-------------|
- d) Write a program to print Fibonacci series in 'C'. 8

**Either:**

4. a) Define array. Explain how to declare an array? What is subscripted variable? Explain using suitable example. 8
- b) What do you mean by searching? Explain linear search in detail. 8

**OR**

- c) Write a program to print addition of two matrices having size  $m \times n$ . 8
- d) Write a difference Bubble sort and sequential sort. 8
5. Solve **all** the questions.
- a) What is purpose of typedef, explain in detail. 4
- b) Explain switch statement in detail using suitable example. 4
- c) What is comma operator? Explain with suitable example. 4
- d) Explain how to read on element from an array. 4

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