

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**
