

B.C.C.A. - II (CBCS Pattern) Semester-III
UBCCAT305 - Paper-V : Programming with C

P. Pages : 2

Time : Three Hours



GUG/W/24/10630(S)

Max. Marks : 40

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

Either :

1. a) What is the difference between bubble sort and insertion sort? 4
- b) Explain string manipulation in C using library functions. 4

OR

- c) Define array? Explain how to initialize a one Dimensional array. 4
- d) Write a program to merge two sorted arrays, into one sorted array. 4

Either :

2. a) What is a function call? Explain with an example. 4
- b) Describe the types of user defined functions in C. 4

OR

- c) Write a program to find addition of two number using user defined function. 4
- d) Explain the following: 4
 - i) Call by value.
 - ii) Call by reference.

Either :

3. a) What is a structure in 'C'? Why is it used? 4
- b) Write a program to enter the marks of 4 subjects of 5 students and also find the total marks of each student using structure with array. 4

OR

- c) Explain the concept of a nested structure with an example. 4
- d) Discuss the applications of unions in C programming. 4

Either :

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| 4. | a) | Explain file management in C and its importance. | 4 |
| | b) | Write a program to interchange the contents of two variables using call by value. | 4 |

OR

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|-----------|----|---|----------|
| | c) | Write a program to sort the string using pointer. | 4 |
| | d) | Discuss the differences between input and output operations on files in C language. | 4 |
| 5. | | Solve all the question. | |
| | a) | Explain types of arrays in C. | 2 |
| | b) | Explain the difference between a library function and user defined functions. | 2 |
| | c) | Explain differentiate between structures and unions in C. | 2 |
| | d) | What is a pointer in 'C'? Explain with an example. | 2 |
