2nd Sem.

Roll No.

Total Pages : 03

BCA/M-23 1864 ADVANCED PROGRAMMING IN C BCA-121

Time : Three Hours]

[Maximum Marks : 80

- Note: Q. No. 1 is compulsory. In addition Q. No. 1, attempt *four* more questions, selecting *one* question from each Unit. All questions carry equal marks.
- 1. Explain the following with example : $4 \times 4 = 16$
 - (a) Structure
 - (b) Union
 - (c) Preprocessor
 - (d) malloc() and calloc().

Unit I

- Explain standard library functions to handle strings in C with suitable examples.
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- 3. Explain the following with suitable example : $4 \times 4 = 16$
 - (a) Structure within structures
 - (b) Typedef

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- (c) Enumeration
- (d) Union of Structures.

Unit II

- 4. What is pointer ? How would you declare and initia a pointer variable ? Explain the concept of pointer pointer with suitable example.
- 5. (a) Differentiate between pointer to an array and array of pointers with example.
 - (b) What do you mean by static and dynamic memory allocation in C ? Explain with example.

Unit III

- 6. Explain the following functions in C using suitable examples : $4 \times 4 = 16$
 - (a) Fseek()
 - (b) fgets()
 - (c) rewind()
 - (d) ftell()
- 7. What are different file opening modes in C ? Write a program in C that merges the contents of two files and write result into a new file.
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Unit IV

8. Explain the following using suitable example in C : $4 \times 4 = 16$

- (a) #error
- (b) #ifdef
- (c) #undef
- (d) #define
- 9. (a) Differentiate between macro and functions with example.
 - (b) Explain command line arguments with example. 8

A. ROOM