

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 : 4×4=16
- (a) Structure
 - (b) Union
 - (c) Preprocessor
 - (d) malloc() and calloc().

Unit I

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

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

Unit II

- 4. What is pointer ? How would you declare and initialize a pointer variable ? Explain the concept of pointer to pointer with suitable example. 16
- 5. (a) Differentiate between pointer to an array and array of pointers with example. 8
- (b) What do you mean by static and dynamic memory allocation in C ? Explain with example. 8

Unit III

- 6. Explain the following functions in C using suitable examples : 4×4=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. 16

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. 8
- (b) Explain command line arguments with example. 8

