

Roll No. ....

Total Pages : 03

**BCA/M-17**

**1889**

**ADVANCED PROGRAMMING IN 'C'**

**Paper 121**

Time : Three Hours]

[Maximum Marks : 80

**Note :** Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. Explain the following :

- (a) Function islower() and to lower()
- (b) Calloc()
- (c) Puts()
- (d) Union of structures
- (e) Enumerated data type
- (f) Pointer arithmetic
- (g) #define directive
- (h) Command line arguments.

**Unit I**

- 2. (a) Write a program to sort the list of names of employees in alphabetic order.
- (b) What is the difference between a string and character array ? Explain with examples.

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- 3. (a) Differentiate between structure and union.
- (b) Define structure and also write rules for declaring and accessing the structure with an example.

**Unit II**

- 4. What is a pointer ? How would you declare and initialize a pointer variable ? Write a simple program to show usage of pointer.
- 5. (a) What do you mean by pointer to pointer ? Explain it with the help of example.
- (b) Explain the concept of dynamic memory management using pointer.

**Unit III**

- 6. (a) What is a file ? Explain various operations performed on a file.
- (b) How will you open a file ? What are various file opening modes ?
- 7. (a) What are various errors that may occur during I/O operations on a file ? How will you handle them ?
- (b) What are the functions performed by fseek() and ftell() function ?

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#### Unit IV

8. (a) What is a macro and how will you define it ? What are the advantages of using a macro ? Explain with suitable example.  
(b) Explain the use #error, #ifdef, #ifndef and #include with some suitable examples.
9. (a) What is Recursion ? Illustrate it with suitable example.  
(b) Explain the usage of command line arguments with the help of a program.

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