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## BCA / M-19
# ADVANCED PROGRAMMING IN C
## Paper–BCA-121

*Time allowed : 3 hours]*      *[Maximum marks : 80*

*Note:*   *Attempt five questions is all selecting **one** from each unit. Question No. 1 is compulsory.*

1.   (a)   What is Union in C? Explain with example.

   (b)   What is a pointer? What is its usage in C?

   (c)   What are fopen() and fclose() in C?

   (d)   What are Macros? What are its advantages and disadvantages?      4×4

### Unit–I

2.   Explain standard Library functions to handle strings in C with examples.      16

3.   (a)   How are structure passing and returning implemented in C?      6

   (b)   What is enumeration? What is its use? What is difference between "typedefenum" and "enum" in C?      10

### Unit–II

4.   (a)   Differentiate between pointer to an array and array of pointers. Explain.

   (b)   Write a program in C to count vowels and consonants in string using pointers.      8×2

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5. What do you mean by Static and Dynamic memory allocation in C? Write a program in C to declare memory for an integer variable both statically and dynamically. 16

## Unit–III

6. What are different file opening modes in C? Write a program in C that merges the contents of two files and write results to a new file. 8×2

7. What is Console Input Output in C? How it is different from File Input/Output? Explain various Console Input/Output functions. 16

## Unit–IV

8. Write short noes on:

(a) Macro Expansion

(b) File Inclusion 8×2

9. What is Conditional Compilation in C? How does it help a programmer? Write a sample Program for Conditional Compilation to print system current date and time. 16

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