

**BCA / D-18**  
**PROGRAMMING IN C**  
**Paper-BCA-116**

Time allowed : 3 hours]

[Maximum marks : 80

*Note : Attempt five questions in all. Question no. 1 is compulsory. Attempt four questions, selecting one question from each unit.*

1. Fill in the blank: 8×2=16
- (a) C is designed by \_\_\_\_\_.
  - (b) scanf() is used for \_\_\_\_\_.
  - (c) goto is used for \_\_\_\_\_.
  - (d) ELSE-IF is used for \_\_\_\_\_.
  - (e) break is used for \_\_\_\_\_.
  - (f) while is used for \_\_\_\_\_.
  - (g) register is used for \_\_\_\_\_.
  - (h) static is used for \_\_\_\_\_.

**Unit-I**

2. What is C ? Explain the structure of a C program. 16
- or
3. Explain the following with example. 4×4=16
- (a) constant
  - (b) printf()
  - (c) gets()
  - (d) puts()

**Unit-II**

4. What is Arithmetic expression in C ? Explain the evaluation of arithmetic expression with reference to operator hierarchy and associativity. 16

or

5. Explain the following decision making constructs: 4×4=16
- (a) IF
  - (b) IF ELSE
  - (c) ELSE-IF
  - (d) SWITCH

**Unit-III**

6. What is the concept of Decision making and looping in C ? Explain the difference between break and continue with examples. 16

or

7. What is recursion ? Explain with example how recursion is different from looping constructs in C. 16

**Unit-IV**

8. Explain array initialization and processing with example. 16
- or
9. What is String ? Explain how string is implemented in C language. 16