GSE/M-20 **1456**

COMPUTER SCIENCE
(Programming in C)
Paper–I

Time : Three Hours] [Maximum Marks : 25

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

Compulsory Question

1. Answer in short :

   (i) What do you mean by Backslash character constant?

   (ii) Explain type casting operator with example.

   (iii) Compare break and continue statements.

   (iv) Write advantages of using Arrays.

   (v) Write structure of C Program. (5)

UNIT–I

2. (i) Discuss different data types used in C.

   (ii) What are identifiers? Write rules for framing identifiers.

   (3,2)

3. Explain with examples unformatted and formatted Input Functions used in C. (5)

UNIT–II

4. (i) What is a conditional operator? Find smaller between two numbers using it.

(ii) Evaluate the expressions :

(a) $3 * 4 - 8 > 6\% 4$

(b) $t = m^{++} + {}^{--}n$ (Here $m = 10$, $n = 5$)

(c) $5 \mathbin{\|} 3 \mathbin{\&\&} 4$ (2,3)

5. Demonstrate the usage of switch statement with example. How is it different from nested if? (5)

UNIT–III

6. Explain different kinds of loops available in C with examples. (5)

7. (i) Discuss Argument Passing Techniques in user defined functions.

(ii) Write user defined function to find factorial of a number. (2,3)

UNIT–IV

8. Write a program in C to multiply two matrices. (5)

9. (i) Compare structure and union.

(ii) Discuss Static and Register Storage Class. (2,3)

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