

NBCA/D-25

37001

PROBLEM SOLVING THROUGH C

B23-CAP-101

Time : Three Hours]

[Maximum Marks : 50

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

(Compulsory Question)

1. (a) What is the purpose of 'stdio.h' header file in a C-language program ?
- (b) Write different format specifiers.
- (c) If $a = 12$, find the value of b after the execution of :
 - (i) $b = a = --a$
 - (ii) $b = a++$.
- (d) Explain continue statement.
- (e) What is an arrays of character data type ? $5 \times 2 = 10$

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P.T.O.

Unit I

2. (a) Why 'C' language is called middle level and all purpose programming language ? 5
- (b) Differentiate a basic data type and a user defined data type. 5
3. Differentiate between :
- (a) `putch()` and `putchar()` 5
- (b) Formatted output and unformatted output. 5

Unit II

4. Write notes on the following : 4,3,3
- (a) Assignment operators <https://www.pyqonline.com>
- (b) Logical conversion
- (c) Associativity of operators.
5. What is a while...do loop ? Write a program to find sum of 1 to n natural Using while....do loop ? 5,5

Unit III

6. (a) What is a two dimensional array of floating point numbers ? How space is allocated in memory to an array ? 5
- (a) Write a program in c language to generate odd numbers i.e.,
1, 3, 5, 7,..... $2n-1$. 5

7. Explain the following :

(a) Call by value a function

5

(b) Call by reference a function.

5

Unit IV

8. Explain the following :

(a) Pointer arithmetic

5

(b) Accessing a structure using pointer.

5

9. (a) What is an array of structures ? Give an example.

5

(b) Differentiate between a structure and a union data type.

5



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