

**B.C.A Semester - 1 (CBCS) Examination
Oct/Nov-2023 (Syllabus Year - 2016)**

PROBLEM SOLVING METHODOLOGIES AND PROGRAMMING IN C (CORE)

Time: 2:30 Hours

Marks: 70

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate marks.

- Que.1(A) Answer the following questions. (all four) (04)
1. Flow chart is a method to display logic in diagrammatic way (True or False)
 2. Give difference between - - m and m - - notation.
 3. There are 32 keywords in C language. (True or false)
 4. Explain: Algorithm.
- Que.1(B) Answer the following questions. (any one) (02)
1. How can we give name of variable in C language? Discuss their rules.
 2. Draw all the symbols of flow chart with their meaning.
- Que.1(C) Answer the following questions. (any one) (03)
1. Write a short note: data type available in C language.
 2. Draw a flow chart to print 1,2,3,...,10 and also print their sum at last.
- Que.1(D) Answer the following questions. (any one) (05)
1. What is type casting? Explain it with example.
 2. What is operator? Define it. write down the list of operators. Explain any two of them in detail.
- Que.2(A) Answer the following questions. (all four) (04)
1. "For" loop is executed at least one time in my situation. (True or false)
 2. Why "for" and "while" loop is known as entry control loop?
 3. Conditional operator is also known as _____ operator.
 4. What is the output?

```
#include<stdio.h>
#include<conio.h>
Void main()
{
    In k=66;
    Printf("%c %d", k, k);
}
```
- Que.2(B) Answer the following questions. (any one) (02)
1. What is switch case statement? Explain in detail.
 2. Explain : break and continue statement with example.
- Que.2(C) Answer the following questions. (any one) (03)
1. Write a short note : "nesting of loop" in details.
 2. Write a short note : describe for loop with example.
- Que.2(D) Answer the following questions. (any one) (05)
1. Describe ladder if else with example.
 2. Write a program to print the following output.

```
1
**
123
****
12345
*****
1234567
```

- Que.3(A) Answer the following questions. (all four) (04)
1. Function call itself is known as _____.
 2. Give difference between gets() and puts().
 3. Explain strlen () function.
 4. Explain clrscr () function.
- Que.3(B) Answer the following questions. (any one) (02)
1. What is library function? Explain it.
 2. Explain strcpy() and strcat() functions.
- Que.3(C) Answer the following questions. (any one) (03)
1. List all types of U.D.F. in C language and explain any one with example.
 2. What is gm time() and local time() functions?
- Que.3(D) Answer the following questions. (any one) (05)
1. Explain any five mathematical functions available in C language.
 2. Explain storage classes in details.
- Que.4(A) Answer the following questions. (all four) (04)
1. In array a[3][4]; how many elements are stored in the variable?
 2. Define : union.
 3. In structure, the . (dot) operator is used for what?
 4. Structure is collection of same data types.is this (true or false)
- Que.4(B) Answer the following questions. (any one) (02)
1. Explain initialization and declaration of structure.
 2. Describe the advantages of array.
- Que.4(C) Answer the following questions. (any one) (03)
1. Describe : pointer with structure.
 2. Explain array and all its type with example.
- Que.4(D) Answer the following questions. (any one) (05)
1. What is structure? Explain it with example.
 2. Write a program to enter any ten values from keyboard and print only those value which is bigger than average value.
- Que.5(A) Answer the following questions. (all four) (04)
1. Define : fopen() function.
 2. Define : feof() function.
 3. Define : fclose() function.
 4. Define : rename() function.
- Que.5(B) Answer the following questions. (any one) (02)
1. Explain file handling in C language.
 2. What is text file and binary file?
- Que.5(C) Answer the following questions. (any one) (03)
1. Explain advantages and limitations of pointer.
 2. Describe : command line argument.
- Que.5(D) Answer the following questions. (any one) (05)
1. Explain pointer to pointer with example.
 2. Explain any five file handling functions available in C language.
