

**B.C.A Semester - 1 (CBCS) Examination
Feb/Mar. -2021 (OLD COURSE)**

PROBLEM SOLVING METHODOLOGIES AND PROGRAMMING IN C (CORE)

Time: 1:30 Hours

Marks: 42

Instructions:

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1(A) Answer the following questions. (04)
1. Give full form : ASCII
 2. Give difference between - - m and m - - notation.
 3. How many keywords are there in C language?
 4. Give definition : Algorithm.
- Q.1(B) Answer the following question. (any one) (02)
1. Give the rules for naming of variable.
 2. Draw all the symbols of flow chart with their meaning.
- Q.1(C) Answer the following question. (any one) (03)
1. Write a short note: Data Type available in C language.
 2. Draw a flow chart to check that given number is positive or negative or zero.
- Q.1(D) Answer the following question. (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.
- Q.2(A) Answer the following questions. (04)
1. Do while loop is executed at least one time in any situation. True or False.
 2. Conditional operator is also known as _____ operator.
 3. Which two loops are known as entry control loop?
 4. What is the output?

```
#include<stdio.h>
#include<conio.h>
Void main()
{
    int k=97;
    printf(“%c %d”, k, k);
}
```
- Q.2(B) Answer the following question. (any one) (02)
1. Describe : switch case statement in detail.
 2. Explain : break and continue statement with example.
- Q.2(C) Answer the following question. (any one) (03)
1. Explain “nesting of loops” in details.
 2. Describe for loop with example.
- Q.2(D) Answer the following question. (any one) (05)
1. Describe ladder if else with example.
 2. Write a program to print following output.

```

1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

- Q.3(A) Answer the following questions. (04)
1. Explain printf() function.
 2. Give difference between gets() and puts()
 3. Explain strlen() function.
 4. Explain clrscr() function.
- Q.3(B) Answer the following question. (any one) (02)
1. What is library function? Explain it.
 2. Explain strcpy() and strcat() functions.
- Q.3(C) Answer the following question. (any one) (03)
1. List all types of U.D.F. in C language and explain any one with example.
 2. What is gmtime() and localtime() functions?
- Q.3(D) Answer the following question. (any one) (05)
1. Explain any five mathematical functions available in c Language.
 2. Explain Storage Classes in details.
- Q.4(A) Answer the following questions. (04)
1. '\0' is also known as _____
 2. Define: Union.
 3. In structure the . (dot) operator is used for what?
 4. Structure is collection of different data types. Is this true or false?
- Q.4(B) Answer the following question. (any one) (02)
1. How can we initialized and declared structure?
 2. Describe the advantages of array.
- Q.4(C) Answer the following question. (any one) (03)
1. Describe: pointer with structure.
 2. What is structure? Explain it with example.
- Q.4(D) Answer the following question. (any one) (05)
1. Explain array and all its type with example.
 2. Write a program to check that inputting number is prime or not.
(the number which is divisible by 1 and itself is known as prime number. For example : 5, 7, 11 etc)
- Q.5(A) Answer the following questions. (04)
1. Define : fopen() function.
 2. Define : feof() function.
 3. Define : fclose() function.
 4. Define : rename() function.
- Q.5(B) Answer the following question. (any one) (02)
1. Explain file handling in C language.
 2. What is text file and binary file?
- Q.5 (C) Answer the following question. (any one) (03)
1. Explain advantages and limitations of pointer.
 2. Describe: Command Line Argument.
- Q.5 (D) Answer the following question. (any one) (05)
1. What is pointer? Explain it with example.
 2. Explain any five file handling functions available in c language.
