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FIRST YEAR (B.Sc. Computer Science)
24CMP11101: Problem Solving Using 'C' Programming
(Semester I)

Program: B.Sc Computer Science(BSc Comp05)
Program Specific: Computer Science
Course Type: Major Mandatory
Paper: I

Credits: 2
Time: 2 Hours
Max. Marks: 30
SET: A

Instructions to the candidate:

- 1) All questions are compulsory.
- 2) Figures to the right indicate full marks.
- 3) Draw a well labelled diagram wherever necessary.

Q1) Attempt ANY FIVE of the following:

[5X2 = 10]

- a) Enlist any four types of operators in 'C'.
- b) State any two applications of 'C' Programming.
- c) Write the use of break keyword.
- d) Define constant in 'C' and write any 2 types of constants.
- e) What do you mean by String and also write its declaration syntax?
- f) List the types of functions in 'C' programming.
- g) Give the names of any two keywords in 'C'.

Q2) Attempt ANY THREE of the following:

[3X4 = 12]

- a) What is 1D array in 'C'? Explain with suitable example.
- b) Find the output of the following code.

```
#include<stdio.h>
main()
{
    int i=1;
    while(++i<=3);
    {
        printf("\n%d",i);
    }
}
```

- c) Write a program to print sum of digits of a given number.
- d) Explain else if ladder with suitable example.
- e) Define Structure in 'C' and write its syntax with an example.

Q3) Attempt ANY TWO of the following:

[2 X 4 = 08]

- a) Draw any 4 symbols of a flowchart along with its use.
- b) Write an algorithm to print average of two numbers.
- c) Differentiate between Compiler and Interpreter.
- d) Write a C program to print even numbers of given array.
