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FIRST YEAR (BSc (Data Science))
24DSC11101: FUNDAMENTALS OF C PROGRAMMING
(Semester I)

Program: BSc.(BSc DS10)
Program Specific: BSc(Data Science)
Course Type: Major
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:

[5 X 2 = 10]

- a) Define Array.
- b) Declare Pointer * ptr to integer variable name a and assign value 10 to a.
- c) What are variables?
- d) What do you mean by .2f while printing float number?
- e) State any one difference between break and continue.
- f) Declare the structure of student having roll no, name. Write a C code for it.
- g) List the properties of Algorithm.
- h) "C is called middle level language" comment.

Q2) Attempt ANY THREE of the following:

[3 X 4 = 12]

- a) Describe the rules of naming variables.
- b) Give syntax of while loop and also write its example.
- c) Draw a flow chart for checking accepted number is positive negative or ZERO.
- d) Discuss Limitations of Array.
- e) Trace the Error and correct the code and display Output.

```
#include<stdio.h>
int main()
{
int a;
printf("This is Pointer;")
return 0;
}
```

Q3) Attempt ANY TWO of the following:

[2 X 4 = 08]

- a) Write a program in C to accept a matrix of order m x n and display it.
- b) Write a program in C to print the addition of two numbers.
- c) Write a program in C to check whether the accepted number is Armstrong or not.
- d) Write a program in C to check whether the given number is even or odd.
