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Or

Write a program for finding the standard deviation for any 10 values.

(D) Write a program to find multiplication table having 10 rows and 8 column. **12**

Or

Write a program for selling of any four items using array.

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III Semester Examination

M.Sc.

MATHEMATICS

Paper III

[Programming in C with ANSI Features]

Time : Three Hours]   [Maximum Marks : 80

[Minimum Passing Marks : 16

Note : Part A and B of each question in each unit consist of very short answer type questions which are to be answered in one or two sentences. Part C (Short answer type) of each question will be answered 200-250 words. Part D (Long answer type) of each question should be answered within the word limit 400-450.

Unit–I

1. (A) Explain assignment statements. Give any two examples. **2**

(B) Explain User-Defined Functions. **2**

(C) Write a program for addition of any two numbers using function. **4**

Or

What is the difference between variables and constants ?

(D) Explain C programming Language in detail. **12**

Or

Describe anatomy of a C function.

Unit–II

2. (A) Write any two keywords with their uses. **2**

(B) Write the syntax for typedef. **2**

(C) Write a program for enumeration for days and week. **4**

Or

Write a program for address of an object.

(D) Write a program to illustrate the use of pointers in arithmetic operations. **12**

Or

Write a program for finding the address of an object.

[2]

Unit–III

3. (A) Write the syntax for switch statement. **2**

(B) Explain unary plus and minus operators. **2**

(C) Write a program for finding the roots of

$$x * x + 2 * x + 2.$$ **4**

Or

Write a program for increment and decrement operators.

(D) Write a program for preparation of marksheet with 4 grades using switch statement. **12**

Or

Write a program using conditional operator.

Unit–IV

4. (A) Write the syntax for one dimensional array. **2**

(B) Write the syntax for defining any value. **2**

(C) Write a program using single subscripted variable to evaluate the following expression : **4**

$$\text{Total} = \sum_{i=1}^{10} x_i^2$$

[3] P. T. O.