

No. of Printed Pages : 03

Roll No. ....

**AA-315**

**M. Sc. EXAMINATION, May 2017**

(First Semester)

(Re-appear Only)

MATHEMATICS

MAT-509-B

Programming in C

*Time : 3 Hours]*

*[Maximum Marks : 100*

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Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

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**Note :** Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks.

(3-04/11)M-AA-315

**P.T.O.**

### **Unit I**

1. (a) Explain various arithmetic and relational operations. **10**  
(b) Explain various input/output functions. **10**
2. (a) What are bitwise operators ? Explain its types. **10**  
(b) Explain various in-built data types in C. **10**

### **Unit II**

3. Explain the syntax all the decision making statement and loops. **20**
4. Compare if-else and switch() statement. Write a program to print all the days of a week using switch() statement. **20**

### **Unit III**

5. What is a user defined function ? What are its different elements ? Write a program to swap two using user defined function. **20**

**M-AA-315**

**2**

6. Explain any 10 standard string handling functions. Also tell the header file in which these functions are present ? **20**

### **Unit IV**

7. Write a program using structures for gathering all the information of all the students of an institute including student name, father data name of birth, student roll number, subjects, marks and stream. **20**
8. Differentiate between array of pointer and pointer of an array with the help of an example. **20**

**(3-04/12)M-AA-315**

**3**

**30**