

AE-807

M.A./M.Sc. (Final)
Term End Examination, 2016-17

MATHEMATICS

Optional

Paper - I

Programming in C
(with ANSI features)

Time : Three Hours] [Maximum Marks : 100
[Minimum Pass Marks : 36

Note : Answer any **five** questions. All questions carry equal marks.

- 1.** (a) What is scope variable ? Give an example.
(b) Explain the use of preprocessor directive statement of 'C' language.
- 2.** (a) Write a program in 'C' to explain loops.

(2)

(b) Explain different data types available in 'C' language.

3. (a) Write a program in 'C' language using single dimensional array.

(b) Explain type casting.

4. (a) Explain different types of 'if' statements in 'C' language.

(b) Write a program in 'C' language to find the factorial of given number.

5. Define linked list with the help of any program in 'C' language.

6. What are the ANSI rules for the syntax and semantics of the storage class ?

7. Write any program in 'C' language using switch statement.

8. Explain file handling in 'C' language.

9. What is the use of bitwise operators ? Give an example.

10. Write short notes on the following :

(a) Pointers

(3)

(b) Dynamic Memory Allocation

(c) Header Files

(d) Structure and Union
