

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
