

FOURTH SEMESTER EXAMINATION 2021-22

M.Sc. MATHEMATICS

Paper - III

Programming in C (With ANSI Features) - II

Time : 3.00 Hrs.

Max. Marks : 50

Total No. of Printed Page : 02

Mini. Marks : 18

Note:- Question paper is divided into three sections. Attempt question of all three section as per direction Distribution of marks is given in each section.

Section 'A'

Very short answer question (in few words)

Q.1 Attempt any six questions from the following :

6x1=6

- (i) What is meant by "short int" in 'C' programming ?
- (ii) Which key word is used to prevent any change in variable within a 'C' program ?
- (iii) What is header file ?
- (iv) What is meant by reserved keywords ?
- (v) Define ARRAY.
- (vi) How are global variables different from local variables ?
- (vii) Define Preprocessor.
- (viii) What is type casting in 'C' ?
- (ix) What is conditional compilation in 'C' ?

(2)

Section 'B'

Short answer type question (in 200 words)

Q.1 Attempt any four questions from the following :

4x5=20

- (i) Explain operators and their precedence in 'C'.
- (ii) What is meant by encryption and Decryption ?
- (iii) Explain storage classes in 'C'.
- (iv) Write a program in 'C' to sort elements of Array.
- (v) What do you understand by linked list ?
- (vi) What is meant by Unions.
- (vii) Write a program in 'C' to calculate factorial of a number.

Section 'C'

Long answer/Essay type question.

2x12=24

Q.3 Attempt any two questions from the following questions :

- (i) Explain Data types in 'C'.
- (ii) Explain the difference between while and do while loop in 'C'.
- (iii) What are pointers ? What is meant by pointer to pointer ? Explain.
- (iv) Explain functions in 'C'.
- (v) Differentiate between Array and structure. Explain structures using suitable example.

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