ED-770

M.A./M.Sc. 4th Semester
Examination, May-June 2021

MATHEMATICS

Optional - A

Paper - V

Programming in 'C' (with ANSI Features) - II

Time : Three Hours]   [*Maximum Marks* : 70

Note : Answer any **two** parts from each question. All questions carry equal marks.

1. (*a*) What is static storage class ? Explain with suitable example.

   (*b*) Demonstrate local and global variable using suitable example.

   (*c*) Explain ANSI rules for the syntax and semantics of the storage class.

2. (*a*) What is Pointer ? Explain pointer arithmetics with example.

   (*b*) How to pass Array as argument in a function ? Explain with suitable example.

   (*c*) Demonstrate pointer to pointer with suitable example.

3. (*a*) What is recursive function ? Explain with example.

   (*b*) Demonstrate macro substitution with suitable example.

   (*c*) What is conditional compilation ? Explain with suitable example.

4. (*a*) Write a program to input Roll No, Name and Marks of any three subjects then calculate total marks and percentage using structure.

   (*b*) Write a program to demonstrate, how the memory is allocated dynamically and release.

   (*c*) Write a program to add a new node in single link list and display the value of all nodes.

5. (*a*) What is error ? How to handle errors in 'C' languages ?

(3)

(*b*) Demonstrate the reading and writting in a file with suitable example.

(*c*) Explain any five input/output functions in 'C' language with example.

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