



ED-620

M.A./M.Sc. 3rd Semester
Examination, March-April 2021

MATHEMATICS

Optional (A)

Paper - V

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

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

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

1. (a) What is the main difference between a variable and a constant ?
- (b) Explain the basic concepts of a C program.
- (c) Explain overview and classification of programming language.

DRG_242_(3)

(Turn Over)

(2)

2. (a) What is data type ? Explain different data types in detail with examples.
(b) What is pointer ? Define it and write the use of pointer.
(c) What is the use of typedef in C ? Give an example.
3. (a) Explain the two-way selection (if, if-else, nested if-else, cascaded if else) in C language with syntax.
(b) Explain the different types of loops in C with syntax and example.
(c) Explain the switch statement with syntax and example.
4. (a) Write a program to find factorial of a number.
(b) What is the difference between & and * operators in C ?
(c) What is Operator ? What are the different types of operator available in C ?
5. (a) Write a program for arranging the element of array in descending order.

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(Continued)

(3)

- (b) What is an array ? Explain the declaration and initialization of one and two-dimensional arrays with example.
 - (c) Find original array from encrypted array (An array of sums of other elements) using C language.
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