



ED-1007

P.G. Diploma in Computer Application
1st Semester Examination, March-April 2021

Paper - II

Programming in 'C'

Time : Three Hours] [*Maximum Marks* : 100

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

Unit-I

1. (a) Explain displaying and reading variables.
(b) What is operator ? Explain any four types of operator used in C.
(c) Explain basic Input/Output functions with their respective syntax and example.

Unit-II

2. (a) What is control statement ? Explain if else statement with example.
(b) Write a program for the following formula
$$(a^2 + b^2) / 4a$$

(c) What is loop ? Explain while and do-while loop with example.

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(Turn Over)

(2)

Unit-III

3. (a) What is Function ? Explain user defined and library function with example.
- (b) Explain the following with example :
- (i) Function Parameter
 - (ii) Arrays of Strings
- (c) What is Array ? Explain multidimensional array with example.

Unit-IV

4. (a) Define Pointer and their use with suitable example.
- (b) Explain void pointers and pointer variables with example.
- (c) Write a program to sort the string using pointer exchange.

Unit-V

5. (a) Explain the declaring and using structure with example.
- (b) Explain the following :
- (i) Array within structure
 - (ii) Scope of Union
- (c) What is Union ? Explain the difference between union and structure.