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.

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.

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