FD-325

M.Sc. 1st Semester
Examination, Dec.-Jan., 2021-22

COMPUTER SCIENCE

Paper - IV

Object-Oriented Programming Using C++

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

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

Unit-I

1. (*a*) Define OOP. Write the characteristics of Object Oriented Language.

(*b*) Explain the constants and variables of C++.

(*c*) Write a C++ program to check whether inputted number is prime or not ?

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(2)

Unit-II

2. (*a*) What is structure ? How can you define and access structure members ? Explain with example.

   (*b*) What is inline function ? Explain it with example.

   (*c*) Write a C++ program to demonstrate passing array to function.

Unit-III

3. (*a*) Define Destructor. Write a suitable program to demonstrate destructor.

   (*b*) How you use object as function argument ? Explain with example.

   (*c*) Discuss Inheritance. Explain multilevel inheritance with example.

Unit-IV

4. (*a*) Explain the void pointer with example.

   (*b*) Explain pointer and string with example.

   (*c*) Discuss pointer to pointer with example.

Unit-V

5. (*a*) Write the use of pure virtual function. Explain with suitable example.

(3)

(*b*) Explain the friend function with example.

(*c*) Write a C++ program to demonstrate object I/O.

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