Bachelor of Science (B.Sc.I.T.) Semester—II Examination

OBJECT ORIENTED PROGRAMMING USING "C++"

Paper—II

Time : Three Hours] [Maximum Marks : 50

N.B. :— (1) **All** questions are compulsory and carry equal marks.
(2) Draw well labelled diagrams wherever necessary.

EITHER

1. (a) Explain elements of object oriented programming. 5
   (b) Explain Inline member function with suitable example. 5

   OR

   (c) Write short notes on 'Access specifiers' in C++ with an example. 5
   (d) Write a program to create a class and object of class. 5

   EITHER

2. (a) How a constructor is declared and defined ? Write some special characteristics of constructor functions. 5
   (b) Write a program to illustrate unary operator overloading. 5

   OR

   (c) Explain parameterized constructor with suitable example. 5
   (d) Differentiate between constructor and destructor. 5

   EITHER

3. (a) Explain the use of 'new' and 'delete' operator. 5
   (b) Explain multiple inheritance with an example. 5

   OR

   (c) Explain array of pointers to objects with example. 5
   (d) Explain order of execution of constructors and destructors in derived classes with suitable program in C++. 5

   EITHER

4. (a) Explain following constructs used in defining exception handling model :
      (i) Try
      (ii) Catch. 5
   (b) Explain fault tolerant design techniques. 5

   OR

   (c) What is Exception ? Explain how to handle uncaught exception. 5
   (d) Explain various rules for handling exception successfully. 5

5. (a) What is Class ? Explain syntax to create object of class. 2½
   (b) Explain any three rules for operators overloading. 2½
   (c) Explain single inheritance with example. 2½
   (d) Define and explain need for virtual function. 2½