OBJECT ORIENTED PROGRAMMING CONCEPTS USING C++- (BSCHAI-122)
SEMESTER- II

TIME: 3 HOURS   M.M. 75

Note : The candidates are required to attempt two questions each from Section A and B carrying 15 marks each and the entire Section C consisting of 05 short answer type questions carrying 03 marks each.

SECTION-A

1. What is Object-Oriented Programming? How is it different from Procedure-oriented language? Explain the characteristics of OOPs.
2. What is the concept of class and an object? Create a class student and use it in a program to display roll number and marks of a student.
3. What do you mean by Function Overloading? Explain giving suitable examples.
4. Discuss the role of constructor and destructor in detail

SECTION-B

5. What is meant by inheritance? Write a program in C++ to illustrate the difference between multiple and multilevel inheritance.
6. What is polymorphism? How can it be implemented? Explain
7. Discuss the concept of exception handling and different types of exceptions.
8. What are the various file streams available in C++? Explain the various methods of opening files in C++ giving suitable examples.

SECTION-C

9. Attempt the following:
   a. Write a short note on arrays in C++.
   b. Write a short note on type conversion.
   c. How input and output is carried out in C++?
   d. What is the difference between call by value and call by reference:
   e. What is the difference function declaration and function definition?