

CS/2110

10405/NH

Total No. of sheet used : 01 Total No. of Questions: 09
Subject : Object Oriented Programming using C++
Class : B.A/B.Sc. III (Computer Application) Semester V
Paper : BAP-301
Title of Paper : Object Oriented Programming using C++
Time Allowed : 3 Hours
Maximum Marks: 45 Minimum Pass Marks : 35%

Note: Candidates are required to attempt two questions each from sections A and B of the question paper and the entire section C.

SECTION A

- Q1. Explain the various characteristics of object oriented programming languages. Discuss in detail various advantages and disadvantages of object oriented programming languages. 09
- Q2. Elaborate with examples various input and output statements supported by C++. 09
- Q3. What is meant by lifetime and scope of variables and explain the various types of storage classes. 09
- Q4. Define function overloading. How default arguments are passed to functions? Explain giving suitable example. 09

SECTION B

- Q5. What is a static class member? Explain how a static member is defined and declared in C ++. What are the merits and demerits of static data members over the global data variables? 09
- Q6. What is a constructor? What are the characteristics of default, parametrized and copy constructor? 09
- Q7. Write short note on the following
- a) Destructor and its role 03
 - b) Abstract class 03
 - c) Polymorphism 03
- Q8. Define inheritance. What are the various types of inheritance? Explain giving examples. 09

SECTION C

- Q9. a) What do you mean by user defined data types? 1.5
- b) How structures are different from arrays? 1.5
- c) What is recursion? 1.5
- d) What is an inline function? 1.5
- e) Write the use of new and delete operators. 1.5
- f) What is container class? 1.5