Reg. No. | | | | | | | | | |

BCMCAV 154

Credit Based Second Semester B.Com. Degree Examination, May/June 2016
(2012-13 Batch Onwards)
COMPUTER APPLICATIONS (Vocational)
Paper – III : Object Oriented Programming Using C++

Time : 3 Hours Max. Marks : 80

PART – A

1. Answer **any ten** of the following questions : **(2×10=20)**
   a) What are tokens ?
   b) What is manipulator ? Give example.
   c) Write the purpose of friend function.
   d) Define an object.
   e) What is the use of scope resolution operator ?
   f) What is an array ? Write the two types of arrays.
   g) What is a constructor ? Give example.
   h) Give any two rules of overloading operator.
   i) What is abstract class ?
   j) Define virtual function.
   k) What is early binding ?
   l) Define inheritance.

PART – B

Answer **any one full** question from **each** Unit :

UNIT – I

2. a) Explain for loop construct with syntax and example.
   b) Explain any five features of OOP.
   c) Explain switch statement with syntax and example. **(5+5+5)**

3. a) Explain any two types of operators in C++.
   b) What is reference variable ? How it differ from pointer variable ? Explain with example.
   c) Explain the different types of type conversions. **(5+5+5)**

P.T.O.

UNIT – II

4. a) What is class ? How it is defined ? Explain with example.
   b) What are characteristics of friend function ?
   c) Differentiate structure and class in C++. **(5+6+4)**

5. a) Write a note on array of objects.
   b) What do you mean by function overloading ? Explain with an example.
   c) Write a program using class to add two complex numbers. **(5+5+5)**

UNIT – III

6. a) Explain any two types of constructors with example.
   b) Explain class to basic type conversion with an example.
   c) What is operator overloading ? Explain overloading of unary operator with an example **(5+5+5)**

7. a) Write the characteristics of constructor functions.
   b) Write a note on parameterized constructor.
   c) Explain basic to class type conversion with an example. **(5+5+5)**

UNIT – IV

8. a) Explain hierarchical inheritance with example.
   b) Explain this pointer with example.
   c) Write any five rules for virtual functions. **(6+4+5)**

9. a) Write the different types of inheritance with example.
   b) Write a note on virtual constructors and destructors.
   c) Explain public mode of inheritance with example. **(5+5+5)**