

Roll No.

97675

B.C.A. 4th Semester

Examination-May, 2015

Object Oriented Design & Programming

Paper-BCA-208

Time : 3 hours

Max. Marks : 80

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Attempt **five** questions in all. Question No. 1 will be **compulsory**. Students will have to attempt **four** more questions, selecting **one** question from each unit.

1. Explain the following : 16

- (i) Flow control
- (ii) Static members

(iii) Static functions

(iv) Name space

Unit-I

2. What do you mean by object oriented approach? How is it different from procedural language. Also explain the characteristics of OOPS. 16

3. Explain the following in C++ Language. 16

(i) Recursion

(ii) Operator

(iii) Array and pointer

Unit-II

4. What do you mean by Constructor ? Explain in detail about its types. 16

5. What is memory management ? How is it implemented in C++. 16

Unit-III

6. What is Inheritance ? Explain the different types of Inheritance. 16
7. Describe the following : 16
- (i) Virtual function
 - (ii) Friend function

Unit-IV

8. What is exception ? How is it handled in C++. Explain in detail. 16
9. (i) What do you mean by Iterator ? Explain its types. 8
- (ii) What are Template classes ? Explain in detail. 8