

Roll No.

97675

BCA 4th Semester

Examination – May, 2019

OBJECT ORIENTED PROGRAMMING USING C++

Paper : BCA- 208

Time : Three hours] [Maximum 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 examination.

Note : Question No. 1 is *compulsory*. Attempt *five* questions in all by selecting at least *one* question from each Unit. All questions carry equal marks.

1. Explain the following :
 - (a) Data types in C++
 - (b) Flow control
 - (c) Iterators

97675-3,400-(P-4)(Q-9)(19)

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- (d) Object copying
- (e) Derived class and base class
- (f) Abstract class
- (g) Polymorphism
- (h) Namespace in C++

UNIT – I

2. What do you mean by Object Oriented Programming ? Discuss the characteristics of Object Oriented of OOP in detail. Also differentiate between Procedural Language and Object oriented Approach in detail.
3. What is C++ Programming language ? Explain its syntax, variables and operators in detail.

UNIT – II

4. (a) What are Constructors and Destructors in C++ ? What are the advantages of using constructors ? Explain in detail.
- (b) What do mean by classes ? Explain Private and Public classes through suitable example.

97675-3,400-(P-4)(Q-9)(19) (2)

5. Explain the following in detail :

- (a) Member Function
- (b) Assignment Operator
- (c) Copy Constructor
- (d) Static Members

UNIT - III

6. (a) What do you mean by inheritance ? Explain the need of inheritance with example.
- (b) Discuss the effect of inheritance on the visibility of members in public, private and protected derivation in detail.

7. Explain the following in detail :

- (a) Overriding member function
- (b) Abstract Class
- (c) Virtual function
- (d) Friend function

UNIT - IV

8. (a) What are exceptions ? How is an exception handled in C++ ? What is the need of exception handling ? Explain in detail.

- (b) What do you mean by unexpected exceptions ? How are they handled ? Explain in detail.

9. What do you mean by templates and standard template library ? Why are they needed ? Explain the different types of templates in details through suitable example.