

Roll No.

97675

**BCA 4th Semester
Examination – April, 2018**

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 : There shall be 9 questions. Question Number 1 will be compulsory and in addition to the compulsory questions, students have to attempt *four* more questions selecting *one* from each Unit. All questions shall carry equal marks.

- 1.** (a) What is Delete Keyword ? **8 × 2 = 16**
(b) What is New keyword ?
(c) What is Resolution Operator ?
(d) What is Public Visibility ?
(e) What is Try-Catch ?
(f) What is Private Visibility ?

- (g) What is Inline Function ?
(h) What is Abstract Class ?

UNIT – I

2. Explain the following with example : $4 \times 4 = 16$
(a) Procedural oriented language
(b) Object oriented language
(c) Polymorphism
(d) Encapsulation
3. Explain the following with example : $4 \times 4 = 16$
(a) Array
(b) Operator
(c) Recursion
(d) Flow Control

UNIT – II

4. What is Constructor ? How this is special function ?
Explain destructor also with example. 16
5. Explain the following with example : $4 \times 4 = 16$
(a) Copy constructor
(b) Object copy
(c) Static member
(d) New and delete

UNIT – III

6. How inheritance play role in reusing the codes ? What are types ? Explain static member and derived classes with example. <http://www.HaryanaPapers.com> 16
7. Explain the following with example : $4 \times 4 = 16$
(a) Ambiguity in multiple inheritance
(b) Virtual function
(c) Overriding member function
(d) Friend function

UNIT – IV

8. Explain the following with example : $5 + 6 + 5 = 16$
(a) Function exception
(b) Unexpected exception
(c) Resource capture and release
9. Explain the following with example : $4 \times 4 = 16$
(a) Template class
(b) Template function
(c) Iterator and Hash
(d) Namespace

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BCA 4th Semester

Examination – May, 2019

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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

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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.

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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.

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