

*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 ?                     $8 \times 2 = 16$**
- (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

---

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

- (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.

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.