

A
(21119)
BCA-III Sem.

Printed Pages : 3
Roll No.

18011

B.C.A. Examination, November-2019
OBJECT ORIENTED PROGRAMMING

Using C++
(BCA-301)

Time : Three Hours] [Maximum Marks : 75

Note : Attempt questions from *all* sections as per instructions.

Section-A

(Very Short Answer Questions)

Note : Attempt all the *five* questions. Each question carries 3 marks. Very short answer is required.

5×3=15

1. What is destructors ? Give example. 3
2. Give the significance of 'Protected' access specifiers. 3
3. How the ambiguity in multiple inheritance can be resolved ? 3

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4. What are default arguments. 3
5. Explain the term data hiding. 3

Section-B

(Short Answer Questions)

Note: Answer any *two* questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words.

2×7½=15

6. What are inline functions ? How are they useful ?
<https://www.ccsustudy.com> 7½
7. Explain : Overloading Vs. Overriding. 7½
8. Explain the concept of abstract classes and virtual base classes with a suitable example. 7½

Section-C

(Detailed Answer Questions)

Note: Attempt any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 3×15=45

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9. What do you mean by exception handling ? How exceptions are handling is done in C++. Illustrate with example. 15
10. In what ways object oriented paradigm is better than structured programming paradigm ? Explain the features of oops. 15
11. What do you mean by Polymorphism ? Explain with the help of example how polymorphism is achieved at (i) compile time (ii) run time. 15
12. Explain
- (i) Constructors 5
 - (ii) Inheritance 5
 - (iii) Aggregation 5
13. What is pointer variable ? What are the applications of Pointer variable ? What are its advantages and disadvantages ? What operations can be performed on the pointer variables ? What are basic data and derived data types which can be expressed in pointer variables ? 15