A

(21119)

BCA-III Sem.

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 ?   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

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