



**CBCS SCHEME**

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15CS45

**Fourth Semester B.E. Degree Examination, June/July 2019**  
**Object Oriented Concepts**

Time: 3 hrs.

Max. Marks: 80

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

**Module-1**

- 1 a. Explain with example programs, how console input and console output are performed in C++. (05 Marks)
- b. Explain function overloading with an example program. (05 Marks)
- c. What are reference variables in C++? Explain with an example program. (06 Marks)



- 2 a. Explain the usage of scope resolution operator with an example program. (08 Marks)
- h. Explain parameterized constructor with an example program. (08 Marks)

**Module-2**

- 3 a. List and explain the java Buzzwords. (08 Marks)
- b. Explain various arithmetic operators present in java with examples. (08 Marks)

**OR**

- 4 a. Explain with examples three uses of break statement in Java. (08 Marks)
- b. Explain various iteration statements present in java with code snippets. (08 Marks)

**Module-3**

- 5 a. What is instance variable hiding? How it can be overcome? Explain with an example. (08 Marks)
- b. Explain method overriding with an example program. (08 Marks)

**OR**

- 6 a. Explain the two uses of super keyword with examples. (06 Marks)
- b. What is exception? Demonstrate working of try and catch blocks with suitable example program. (05 Marks)
- c. Explain the importance of finally clause with an example program. (05 Marks)

**Module-4**

- 7 a. Explain isAlive() and join() methods with an example program. (08 Marks)
- b. Explain how thread can be created by implementing runnable interface with an example program. (08 Marks)

**OR**

- 8 a. Explain delegation event model used to handle events in Java. (08 Marks)
- b. Briefly explain various sources of events. (08 Marks)

**Module-5**

- 9 a. Define Applet. Explain the skeleton of an Applet in detail. (08 Marks)
- b. How can we pass parameters to App lets? Explain with an example program. (08 Marks)

**OR**

- 10 a. Explain the following: i) Mutton ii) JToggleButton iii) JCheckBoxes  
iv) Radio Buttons. (08 Marks)
- b. Explain JTabbedPane and JScrollPane with example programs. (08 Marks)