CBCS SCHEME

USN ☐☐☐☐☐☐☐☐☐☐   **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)**

OR

2 a. Explain the usage of scope resolution operator with an example program. **(08 Marks)**
   b. 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 Applets? Explain with an example program. **(08 Marks)**

OR

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

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