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Fourth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Object Oriented Concepts

Time: 3 hrs.

Max. Marks: 100

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

Module-1

- 1 a. Explain the various features of Object Oriented Concept. (08 Marks)
- b. Explain function overloading with an example. (08 Marks)
- c. Explain type conversion with an example. (04 Marks)

OR

- 2 a. List properties of friend function. Write a C++ program to add two numbers using friend function. (08 Marks)
- b. What is an inline function? Write a C++ program to find the maximum of two numbers using inline function. (08 Marks)
- c. Explain scope resolution operator with an example. (04 Marks)

Module-2

- 3 a. List characteristics of constructor. Explain default constructor with an example. (08 Marks)
- b. Explain with examples,
 - (i) Array and Objects (08 Marks)
 - (ii) Destructors (04 Marks)
- c. Write short notes on namespace with example. (04 Marks)

OR

- 4 a. List and explain Java Buzzwords. (08 Marks)
- b. Describe the program to calculate the average among the elements (4, 8, 10, 12) using for each in Java. How it is different from for loop? (08 Marks)
- c. Explain switch case with an example. (04 Marks)

Module-3

- 5 a. Explain the concept of Inheritance and its classification in Java. (08 Marks)
- b. Explain exception handling mechanism with an example. (08 Marks)
- c. Write short notes on this keyword with an example. (04 Marks)

OR

- 6 a. Explain the Java garbage collection. (08 Marks)
- b. Discuss the following terms with an example :
 - (i) Super keyword (08 Marks)
 - (ii) Final keyword (04 Marks)
- c. Explain the method overriding with an example. (04 Marks)

Module-4

- 7 a. Explain the packages in Java with an example. (10 Marks)
- b. Explain the interfaces in Java using suitable code. (10 Marks)

OR

- 8 a. Explain the concept of multithreading in Java. Explain how to make class threadable? (10 Marks)
- b. With a syntax, explain is Alive () and Join () with suitable program. (10 Marks)

Module-5

- 9 a. What is an applet? Explain the life cycle of the applet. (10 Marks)
- b. Write a short notes on : (10 Marks)
- (i) Event listener interface
 - (ii) Event classes

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OR

- 10 Explain the following with suitable code : (20 Marks)
- a. JButton
 - b. JLabel
 - c. JComboBox
 - d. JSlider
