

# CBCS SCHEME

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18CS45

Fourth Semester B.E. Degree Examination, Jan./Feb. 2023

## 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. State the important feature of Object Oriented Paradigm. (10 Marks)
- b. What is constructor? List the different types of constructors and explain. (10 Marks)

OR

- 2 a. What is static member of a class? Write C++ program to count the number of object created. (10 Marks)
- b. What is function overloading? Write C++ program to define three overload function area( ) to find area of circle, triangle and rectangle. (10 Marks)

### Module-2

- 3 a. List and explain java Buzzwords. (10 Marks)
- b. Explain the structure of Java.Program and its keywords with an example. (10 Marks)

OR

- 4 a. Explain the concept of array in java with example. (10 Marks)
- b. List and explain different iteration statement used in java with example. (10 Marks)

### Module-3

- 5 a. What is an exception? With syntax explain exception handling mechanism. (10 Marks)
- b. Explain different access specifier in java with example. (10 Marks)

OR

- 6 a. Define Package. What are the steps involved in creating user define package with an example. (10 Marks)
- b. Compare and contrast method overloading and overriding with examples. (10 Marks)

### Module-4

- 7 a. What is meant by thread priority? How is it assigned? (10 Marks)
- b. Explain key Event and mouse Event class. (10 Marks)

OR

- 8 a. What is meant by deadlock? How to avoid deadlock? Give example. (10 Marks)
- b. Explain following with syntax and example:  
i) wait( )    ii) notify( )    iii) notifyAll( ) (10 Marks)

### Module-5

- 9 a. What is an applet? What are its types? Explain the skeleton of an applet. (10 Marks)
- b. Explain Advantages of Swing over AWT and two key features of swings. (10 Marks)

OR

- 10 a. Explain with syntax.  
i) JLabel    ii) JTextField    iii) JButton    iv) JCheckBox    v) JComboBox (10 Marks)
- b. Write swing program for displaying any one of the options : C, C++, PHP, Java through the selection of combo box by clicking the show button (10 Marks)

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Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.  
2. Any revealing of identification, appeal to evaluator and/or equations written eg, 42+8 = 50, will be treated as malpractice.