

# CBCS SCHEME

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17CS42

## Fourth Semester B.E. Degree Examination, Dec.2019?-rin.2020 Object Oriented Concepts

Time: 3 hrs.

Max. Marks: 100

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

### Module-1

- 1 a. Explain how C++ allows member functions in structures. Give example. (06 Marks)
- b. What is data abstraction? How is it implemented in C++? (06 Marks)
- c. What is function overloading? Write a C++ program to define three overloaded functions area ( ) to find area of circle, triangle and rectangle. (08 Marks)

### OR

- 2 a. How we can make some specific member functions of one class friendly to another class? (06 Marks)
- b. What is constructor? List the different types of constructors and explain default constructor with example. (08 Marks)
- c. What is static member of a class? Write a C++ program to count the number of objects created. (06 Marks)

### Module-2

- 3 a. List and explain the java buzzwords. (08 Marks)
- b. Explain the concepts of arrays in java with examples. (07 Marks)
- c. Explain type conversion in java with an example. (05 Marks)

### OR

- 4 a. Write a java program to initialize and display different types of integer and floating point variables. (05 Marks)
- b. List and explain different jump statements used in java with examples. (07 Marks)
- c. List and explain different iteration statements used in java with examples. (08 Marks)

### Module-3

- 5 a. Write a program in java to implement a stack operations that can hold 10 integers. (07 Marks)
- b. Compare and contrast method overloading and method overriding with examples. (08 Marks)
- c. Describe the significance of super in java. Give example. (05 Marks)

### OR

- 6 a. Define package. What are the steps involved in creating user defined package with an example. (08 Marks)
- b. What is an exception? How java supports exception handling mechanism. Give example. (07 Marks)
- c. Explain how variables in interfaces are used. Give example. (05 Marks)

### Module-4

- 7 a. What is thread? Explain two ways of creation of threads. (07 Marks)
- b. Describe thread priority. How to assign and get the thread priority. (07 Marks)
- c. Explain the following with syntax and example, (06 Marks)

(i) wait ( )

(ii) notify ( )

(iii) notifyAll ( )

**OR**

- 8 a. What is meant by deadlock? How to avoid deadlock? Give example. (10 Marks)
- b. Briefly explain the role of inner class and anonymous inner class in java. (05 Marks)
- c. What is an event class? List and explain different event classes available in java. (05 Marks)

**Module-5**

- 9 a. Explain the five methods of Applet. (05 Marks)
- b. Explain the HTML Applet tag with syntax and example. (07 Marks)
- c. Write a swing program for displaying any one of the options : C, C++, Java, PHP through the selection of combo box by clicking the show button. (08 Marks)

**OR**

- 10 a. Explain with syntax:  
(i) JLabel      (ii) JTextField      (iii) JButton      (iv) JCheckBox      (v) JComboBox. (10 Marks)
- b. Write a program to create a table with column headings such as Fname, Lname, Address, Age and insert at least 5 records in the table and display. (10 Marks)

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