

CBCS SCHEME

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14161

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

- Explain how C++ allows member functions in structures. Give example. (06 Marks)
 - What is data abstraction? How is it implemented in C++? (06 Marks)
 - 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

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

Module-2

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

OR

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

Module-3

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

OR

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

Module-4

- What is thread? Explain two ways of creation of threads. (07 Marks)
 - Describe thread priority. How to assign and get the thread priority. (07 Marks)
 - Explain the following with syntax and example,
(i) wait () (ii) notify () (iii) notifyAll (). (06 Marks)

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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