

| | January Community | | | | | |
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| USN | Manuscrimmon and Market | | | | | 15CS45 |
| | [mm] | | | | | |

Fourth Semester B.E. Degree Examination, Dec.2017/Jan.2018 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. List out the difference between procedure oriented program and object oriented program.
 - b. Explain function overloading with example. (05 Marks)
 (05 Marks)
 - c. What is constructor? List the different type of constructors and explain default constructor with example. (06 Marks)

OR

- 2 a. Explain the concept of object oriented program
 - i) Encapsulation
 - ii) Polymorphism
 - iii) Inheritance
 - iv) Data initialization. (08 Marks)
 - b. Explain function prototyping with example.

(05 Marks)

- c. How do namespace help in preventing pollution of the global name space?
 - pace? (03 Marks)

Module-2

3 a. Explain how java is robust and interactive.

- (05 Marks)
- b. Write java program to sum only first five elements of the array using for each looping.

(05 Marks)

- c. Explain the operation of the following operators with example.
 - i) %
- ii) >>>
- iii) &&

(06 Marks)

OR

- 4 a. Write java program to initialize and display different types of integer and floating point variables. (06 Marks)
 - b. What is type casting? Illustrate with an example. What is meant by automatic type promotion? (06 Marks)
 - c. How to declare two dimensional arrays in java? Explain with simple example. (04 Marks)

Module-3

- 5 a. Describe the various levels of access protections available for packages and their implications. (08 Marks)
 - b. Give the basic form of an exception handling block.

(04 Marks)

c. What is the importance of the clause finally?

(04 Marks)

OR

6 a. Define inheritance. List the different types of inheritance.

(05 Marks)

b. Illustrate with example a super class variable can reference a subclass object.

(06 Marks)

c. Compare and contrast method overloading and overriding.

(05 Marks)

Module-4

7 a. What is Thread? Explain two ways of creation of thread.
b. What is synchronization? When do we use it?
c. Explain keyEvents and mouseEvent class.
(05 Marks)
(06 Marks)

OR

8 a. Explain Delegation event model used to handle events in java. (08 Marks)
b. Explain the role of synchronization with producer and consumer problem. (08 Marks)

Module-5

- 9 a. What is an applet? Explain five main methods of applet. (08 Marks)
 - b. Explain with syntax the following:
 - i) JLabel
 - ii) JTextField
 - iii) JButton
 - iv) JCheckBox

(08 Marks)

OR

- 10 a. Create swing applet that has two buttons named beta and gamma. When either of the buttons pressed, it should display "beta pressed" and "gamma was pressed" respectively. (08 Marks)
 - b. Explain getDocumentbase and getCodebase in applet class.

(08 Marks)

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