TCS-304/TIT-304   1173/1174

Odd Semester Examination 2018-19

B. TECH. (CSE) (SEMESTER-III)

OBJECT ORIENTED PROGRAMING

Time: 03:00 Hours   Max Marks : 100

SECTION A

Note Attempt any four. All question carry equal marks.   [4x5 = 20]

1.   Define the following terms:

    (a)   Aggregation

    (b)   Java Applets

    (c)   Abstract class

    (d)   Data Abstraction

    (e)   Event handling

SECTION B

2.   Attempt any four. All question carry equal marks   [4x5 = 20]

    (a)   Explain difference between generalization and inheritance

    (b)   Main characteristics of java programming.

    (c)   What are different List LayoutManagers in Java

    (d)   What are four types of JDBC drivers?

    (e)   Differentiate between compile time and run time polymorphism.

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SECTION C

[4x5 = 20]

3. Attempt **any four**. All question carry equal marks.

   (a) What do you mean by exception handling in Java.

   (b) What is object cloning? Why it is needed?

   (c) What is Dynamic binding? Show with an example how dynamic binding works.

   (d) How are this () and super () used with constructors? Explain with an example.

   (e) What is the difference between == and equals ()? Explain with a proper example.

SECTION D

[2x10= 20]

4. Attempt **any two**. All question carry equal marks.

   (a) Explain in details nesting of interfaces. What could be the probable reason according to you that nested interfaces are static?

   (b) What is method overriding? What are the restrictions on method overriding?

   (c) Write program, which reads an array of digits and finds how many digits are equal to 5. Input 2145835769 outputs 2. Do not use if. Use only Array Index Out Of Bounds Exception.

SECTION E

[2x10= 20]

5. Attempt **any two**. All question carry equal marks.

   (a) What is difference between ClassNotFoundException and NoClassDefFoundError? How to remove them?

   (b) What is an exception? Define checked and unchecked exception and handle them with a proper example.

   (c) "We use abstract class & interface interchangeably as per program's requirement." Justify this statement with example to show pros & cons of using abstract class & interface in different scenarios.

————— X —————

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