TCS-304   202   **Printed Pages : 3**

Paper Code & Roll No. to be filled in your Answer Book

Roll No.

Odd Semester Examination-2016

B.Tech (Semester-III)

OBJECT ORIENTED PROGRAMMING

[Time : 3 Hours]   [Maximum Marks : 100]

Note : Attempt **all** questions. All questions carry **equal** marks.

1. Attempt **any four** questions :   [5×4=20]

    (a)   What do you understand by Object Oriented Programming? Also explain its features, pros & cons ?

    (b)   What is State Diagram? Explain the State Diagram for ATM?

    (c)   Explain the stages of Object Modelling Technique.

    (d)   Explain what is abstract class? How it is different from concrete class?

    (e)   Explain Links, Association and Multiplicity with example.

2. Attempt **any four** questions : [5×4=20]

(a) Prepare a DFD for computing volume and surface area of cylinder? Discuss several ways of implementing DFD?

(b) How does String class differ from String buffer class? Write a program which will read a string and rewrite it?

(c) Explain ER diagram with example.

(d) Discuss Event & State? Also explain event state diagram for phone call.

(e) Compare SA/SD and JSD methodologies.

3. Attempt **any two** questions : [10×2=20]

(a) What is an Applet? Describe the life cycle methods of Java Applet? Also explain ways to execute the Applet?

(b) Explain Multiprocessing & Multithreading with help of suitable example. What are different layout available in Java?

(c) Explain the rules for assigning the values of expression to a variable. How can be truncating a number with the help of methods, like round, ceil and floor?

4. Attempt **any two** questions : [10×2=20]

(a) What do you mean by AWT? Explain its application, working & controls with windows?

(b) Give reasons why exception handling techniques should not be used for conventional program control? Discuss how exception handling is done in Java?

(c) Differentiate between String and String Buffer for a string str = "PAYAL" , write a program to display the str in lower case?

5. Attempt **any two** questions : [10×2=20]

(a) Explain what was the need of migrating from C++ to Java in software development.

(b) Differentiate JDBC with ODBC. Also explain different drivers in JDBC.

(c) What is java swing? Explain it with proper example.

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