Paper Code : ECS-305

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 110315 Roll No.

B. TECH

(Odd Sem.-III) Theory Examination, 2016-17

OBJECT ORIENTED SYSTEMS

Time : 3 : 00 Hr.] **[Maximum Marks : 100**

Note : Attempt all Sections. If require any missing data; then choose suitably.

Section-A

1. Attempt all parts. All parts carry equal mark. Write answer of each part in short : 2×10=20

   (a) Define abstract class in java.

   (b) What is friend function ? Explain with an example.

   (c) Differentiate between overriding and overloading of function in java.

   (d) What is servlet ?

   (e) What is the nested state diagram ? Explain with suitable example.

   (f) Discuss the synchronization of concurrent activities.

   (g) Compare C++ with Java.

   (h) What do you mean by candidate keys in object modeling ?

   (i) What is inheritance in Java ?

   (j) Define java.

quescol.com

Section-B

Attempt any five questions. Each question carries equal marks. 5×10=50

2. What do you mean by Scenarios ? Prepare an event trace for a phone call.

3. Why Java does not support multiple inheritances ? Justify.

4. Explain the dynamic model with an example.

5. What do you mean by object modeling technique ? Explain. Discuss the various stages of the object modeling techniques with some example.

6. What do you understand by encapsulation ? Describe with an example.

7. Is Java object oriented language? Justify the statement.

8. Write square matrix multiplication program in java.

9. What is multi threading ? How it is achieved in Java ?

Section - C

Attempt any two questions from this Section. Each question carries equal marks. 15×2=30

10. Write short notes on :
    (a) Layout manager in Java
    (b) Polymorphism in Java
    (c) Object class in Java.

11. Write short note on :
    (a) Java Database connectivity
    (b) Jackson structured development (JSD)
    (c) Applets in Java.

12. Attempt both :
    (a) Write a java program to demonstrate abstraction and encapsulation.
    (b) Write a short note on object oriented programming and compare it with Java.

quescol.com
https://quescol.com | Free PYQs, Solutions, Syllabus, Notes etc