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Name.....

Reg. **No.**.....

THIRD SEMESTER M.Sc. DEGREE EXAMINATION, DECEMBER 2016

(CUCSS)

Computer Science

CSS 3C 03—OBJECT ORIENTED PROGRAMMING CONCEPTS

(2014 Admissions)

Time : Three Hours

Maximum : 36 Weightage

Part A

Answer all questions.

1. Write the characteristics of object oriented programming.
2. Define **JVM**.
3. What is object cloning.
4. Define method overriding.
5. What is super in **java** ?
6. Define an abstract class.
7. What is a final variable ?
8. What is multithreading ?
9. What is inheritance ?
10. What is method dispatch ?
11. What is a socket ?
12. **Whatis UML** ? Write difference between **UML** and ordinary flowchart.

(12 x 1 = 12 weightage)

Part B

*Answer any **six** questions*

13. Write the difference between static and instance methods.
14. What is an interface and how an interface can be implemented ?
15. What is a constructor ? Explain the different types of constructors with example.
16. What is an **applet** ? Explain the life cycle of an **applet** ?
17. What are the **JDBC** API components.

Turn over

18. Explain thread and write how thread can be implemented in java.
19. What are packages and how they are imported in java ?
20. What are the different approaches to handle events ?
21. Explain **filestreams**.

(6 x 2 = 12 weightage)

Part C

*Answer any **three** questions*

22. With suitable example explain exception handling in java.
23. Explain **JDBC** architecture and write the role of **Driver** in **JDBC**.
24. Write short notes on :
 - (a) Component.
 - (b) Container.
 - (c) Layout Managers.
25. In how many ways can a thread be created in Java ? Explain and give examples.
26. (a) Write the difference between an **applet** and application in java.
(b) Write a **java** program that draws two rectangles of different size and locations.
27. (a) What is **UML** ?
(b) What does associations, aggregation and composition in a class diagram mean ?
(c) How the object diagrams gets represented in **UML** ?

(3 x 4 = 12 weightage)