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(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER M.Sc. DEGREE (REGULAR/SUPPLEMENTARY)
EXAMINATION, NOVEMBER 2023**

(CBCSS)

Computer Science

CSS 3C 12—OBJECT ORIENTED PROGRAMMING CONCEPTS

(2019 Admission onwards)

Time : Three Hours

Maximum : 30 Weightage

Section A (Short Answer)

*Answer any **four** questions.
Each question carries 2 weightage.*

1. What is JVM ?
2. What is a Variable ? Explain scope of variables and declarations
3. Define Constructor. Explain with an example.
4. Explain the usage of this and super keyword in JAVA.
5. What is an Exception ? Explain different types of exceptions.
6. Explain parameter passing in applet.
7. What is the use of sockets ?

(4 × 2 = 8 weightage)

Section B (Short Essay)

*Answer any **four** questions.
Each question carries 3 weightage.*

8. Explain the basic principles of object oriented programming.
9. Explain the data types used in Java.
10. Write a java program to demonstrate the method overriding.
11. Explain user defined packages.
12. Differentiate between throws and throw statement in Java.

Turn over

13. What is an Applet ? Explain applet life cycle.
14. Explain component diagram and deployment diagram with examples.

(4 × 3 = 12 weightage)

Section C (Essay)

*Answer any **two** questions.*

Each question carries 5 weightage.

15. Explain looping and branching statements in Java with examples. Discuss packages and interfaces with examples.
16. Explain thread life cycle. Outline inter thread communication and synchronization. Write a java program to create a thread by extending Thread Class ?
17. Summarize the features of AWT. Write a Java GUI program to find the sum of two numbers using AWT controls.
18. Demonstrate with a sample program how JDBC components are used to connect and access databases.

(2 × 5 = 10 weightage)