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(Pages : 2)

Name.....

Reg. No.....

**THIRD SEMESTER B.VOC. DEGREE EXAMINATION, NOVEMBER 2025**

Data Science and Analytics

SDC3DS12—OBJECT ORIENTED PROGRAMMING WITH JAVA

(2021 Admissions)

Time : Two Hours and a Half

Maximum : 80 Marks

**Section A***Answer **all** questions.**Each question carries 2 marks.*

1. Differentiate between object oriented and procedure oriented programming.
2. List out the primitive data types used in Java.
3. Define a class.
4. What is the use of protected keyword in java ?
5. What are the methods in String class ?
6. Write the syntax of switch case structure.
7. What is constructor overloading ?
8. Define a String buffer class.
9. Define Window Event Class.
10. Define Event Listener.
11. Why exception handling is done ?
12. What is the use of finally method in Java ?
13. What is an applet ?
14. Distinguish between init() and start() methods of an applet.
15. What is JDBC Driver ? List various JDBC drivers.

(25 marks)

**Turn over**

**Section B**

*Answer **all** questions.*

*Each question carries 5 marks.*

16. Explain looping statements with example.
17. Differentiate between one-dimensional, two-dimensional arrays with appropriate syntax and examples.
18. Explain method overloading with example.
19. How Java implements runtime polymorphism ?
20. Write short note on dynamic array referencing.
21. Define an Event. List some of the Event Classes defined in Java AWT.
22. How are databases accessing and manipulating using JDBC ?
23. Discuss the steps involved in the development and running a local applet.

(35 marks)

**Section C**

*Answer any **two** questions.*

*Each question carries 10 marks.*

24. Illustrate the use of different operators in Java.
25. With examples explain interfaces and packages.
26. What is multithreading ? Describe the 2 ways in which a thread can be created in Java.
27. Explain Event handling mechanism in Java.

(20 marks)