

**Vidya Vikas Mandal's**  
**Shree Damodar College of Commerce & Economics, Margao-Goa**  
**FY B.Voc(ST), Semester-II, Semester End Examination, June 2022**  
**OOPs with Java (STG201)**

**Duration: 2 Hours****Max. Marks: 60****Instructions:**

- i. All Questions are compulsory, however there are internal choices
- ii. Start each question on a fresh page
- iii. Figures to the right indicate Full Marks.

- Q1) Answer any 5 of the following. 5 X 2 = 10
- a) What is a class? Give a diagrammatic example of a class.
  - b) How is 'super' keyword used in Object-Oriented Programming?
  - c) Define Unchecked Exception. Give an example.
  - d) What is a Deadlock in Java and state the reason they occur?
  - e) State and explain the 2 types of Java Streams.
  - f) Does Java support Multiple Inheritance? Justify your answer.
  - g) What is the use of finally block in Exception Handling?
- Q2) Answer any 5 of the following. 5 X 2 = 10
- a) What is the state and behaviour of an object?
  - b) Differentiate between Abstract method and Concrete method.
  - c) Why is Exception Handling mechanism necessary in Java?
  - d) Mention the use of 'new' keyword in Java programming language.
  - e) What is an Applet in Java? Which in-built package to import to create an Applet?
  - f) What is a Frame component of the AWT Class?
  - g) Define Data Abstraction. Give an example.
- Q3) Answer the following. 10 Marks
- A) Mention any 5 features of Object-Oriented Programming. 5
  - B) Describe Static Polymorphism. Demonstrate its implementation with a suitable example. 5
- OR**
- C) Mention the purpose of Encapsulation. Explain with a suitable example. 5
- Q4) Answer the following. 10 Marks
- A) Mention the purpose of Inheritance. Explain Single Inheritance with a suitable example. 5
  - B) Define an Interface? Explain with a suitable example. 5
- OR**
- C) Define an Abstract Class ? Explain with a suitable example. 5

- Q5) Answer the following. 10 Marks
- A) Define Run-Time Errors. State any 4 common run-time errors. 5
- B) Discuss the purpose of '**throws**' Exception Handling mechanism? Demonstrate with an example. 5

**OR**

- C) Mention the **Exception Type** and **Cause of Exception** of any 5 in-built Java Exceptions. 5

- Q6) Answer the following. 10 Marks
- A) Describe a Thread in Java. Demonstrate with an example how a thread is created by extending a Thread Class. 5
- B) Explain the Model-View-Architecture. 5

**OR**

- C) State 5 points of difference between AWT and Swing. 5
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