

**Vidya Vikas Mandal's**  
**Shree Damodar College of Commerce & Economics, Margao-Goa**  
**FY B.Voc (ST), Semester-II, Supplementary Examination June 2023**  
**OOPS with JAVA (STG201) - Truncated Syllabus 2021-22**

**Duration: 2hrs****Max Marks: 60****Instructions:**

- 1) All Questions are Compulsory
- 2) Start each question on fresh page.
- 3) Figures to the right indicate maximum marks.
- 4) Draw a neat diagram wherever necessary

**Q1. Answer ANY FIVE of the Following.****(5 x 2 = 10 Marks)**

- a) Explain JDK in brief.
- b) Distinguish between Procedure Oriented Programming Language and Object Oriented Programming Language.
- c) Explain Encapsulation.
- d) Describe Objects in Java and give one example.
- e) Explain Unstructured Programming.
- f) Explain Hybrid Inheritance.
- g) Explain advantages of using Java Packages.

**Q2. Answer ANY FIVE of the Following.****(5 x 2 = 10 Marks)**

- a) Explain different types of Errors.
- b) Explain the method used to create a file in Java.
- c) Explain in brief how to handle exception in Java using user defined exception.
- d) Describe Multithreading in Java.
- e) Explain Synchronization in java.
- f) Discuss advantages of using Applets.
- g) Explain Frames in brief.

**Q3. Answer the Following.****(2 x 5 = 10 Marks)**

- A) Explain Parameterized Constructors with the help of a Java program. **5 marks**

**OR**

- B) Explain Hierarchical Inheritance and write a java program for the same. **5 marks**
- C) Explain arithmetic operators and Relational Operators in Java. **5 marks**

**Q4. Answer the Following. (2 x 5 = 10 Marks)**

- A) Explain Method Overriding in detail with the help of a Java program. **5 marks**

**OR**

- B) Explain Abstract Methods and write a java program for the same. **5 marks**
- C) Differentiate between Abstract Classes and Interface. **5 marks**

**Q5. Answer the Following. (2 x 5 = 10 Marks)**

- A) Explain Data Abstraction in detail with example. **5 marks**

**OR**

- B) Explain Multiple Inheritance in Java with the help of example. **5 marks**
- C) With the help of a diagram explain Life Cycle of a Thread. **5 marks**

**Q6. Answer the Following. (2 x 5 = 10 Marks)**

- A) Explain with the help of an example how finally block is used in Java. **5 marks**

**OR**

- B) Describe Character stream class and write a Java program to write into a file. **5 marks**

- C) With the help of diagram explain MVC in Swings. **5 marks**
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