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| FINAL SRI DEVI INSTITURnew  **SHREE DEVI INSTITUTE OF TECHNOLOGY**  **Kenjar, Mangalore-574142**  **MASTER OF COMPUTER APPLICATIONS**  **III Internal Test - September 2024** | | | | | | | |
| **Sem/Sec: 2nd Sem** | | | | **Max. Marks: 30** | | | |
| **Course Name: OOP’s Using Java** | | | | **Duration: 1 Hour** | | | |
| **Course Code: 22MCA22** | | | | **Date: 30/09/2024** | | | |
|  | | | |  | | | |
| Question Number | |  | **Note: Answer any one full question from each part** | | Marks | RBT Level | CO |
| **PART A** | | | | | | | |
| I | | 1  2 | What are **interfaces**? What are their benefits? Explain how it is implemented in java with suitable example.  Briefly Explain why Java doesn’t directly support **Multiple Inheritance.** With an example explain how multiple inheritance is implemented in java. | | **7**  **8** |  | CO1  CO1 |
|  | |  | OR | |  |  |  |
| II | | 3  4 | What is **Package**? Write a simple program to create a package and import package to make use of the class declared in the package.  Design an **interface** called polygon with a method called area. Implement this interface to create different classes like square, rectangle and print the area of square and rectangle. | | **7**  **8** |  | CO1  CO1 |
| **PART B** | | | | | | | |
| III | 5  6 | | What is **Exception**? Briefly explain the classification of Exception and Exception Hierarchy.  Differentiate between **abstract** **class** and **interface**. | | **8**  **7** |  | CO1  CO1 |
|  |  | | OR | |  |  |  |
| IV | 7  8 | | Define **exception** and explain the general structure of exception handling mechanism. Write a simple program to generate arithmetic exception.  Explain briefly 5 **keywords** to handle exception. Illustrate it with a suitable example. | | **8**  **7** |  | CO1  CO1 |