

**II-B.TECH-I SEM(R22) I -MIDEXAMINATIONS,SEP/OCT-2024**

**SUBJECT: OBJECT ORIENTED PROGRAMMING THROUGH JAVA (R22CS304PC)**

**Branch: CSE, AI&ML, DS, CS &IT Marks:30 M**

**Date: 04/10/2024 Time: 10:00AM to 11:30AM SET-I**

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**Note: Question paper contains two parts, Part-A and Part- B.**

**Answer all questions in Part-A.**

**Answer any four questions in Part-B**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **BTL** | **CO** |
| **1.** | What is a Class and Object? | 1 | 1 |
| **2.** | Distinguish between Method Overloading and Method Overriding? | 4 | 2 |
| **3.** | Explain about Exception its types? | 2 | 3 |
| **4.** | Outline all Java Buzzwords? | 2 | 1 |
| **5.** | Discuss about Abstract classes in java? | 6 | 2 |

**PART-B 4x5M = 20M**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **BTL** | **CO** |
| **6.** | a) Demonstrate how are Arrays Declared and Initialized in Java with suitable program? | 2 | 1 |
|  | b) List the various primitive Data types available in java Explain? | 1 | 2 |
| **7** | a) What is recursion? Construct a java program to find the factorial of given number using recursion?  b) What is Typecasting and explain its types with example program. | 3  1 | 1  1 |
| **8** | Discus about constructor and constructor overloading With Example program in Java? | 6 | 2 |
| **9** | Define package? How to create access and import the package in Java? Explain with an Example? | 1 | 2 |
| **10** | What is Inheritance? Discuss various forms of Inheritance with Suitable example? | 1 | 2 |
| **11** | List various keywords used to handle Exception and write a program to handle an exception ? | 4 | 3 |

**Scheme of Evaluation**

**Mid-I**

**Part-A**

|  |  |  |  |
| --- | --- | --- | --- |
| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| 1 | What is a Class and Object? | 1 | 1 |
| 2 | Distinguish between Method Overloading and Method Overriding? | 1 | 1 |
| 3 | Explain about Exception its types? | 1 | 1 |
| 4 | Outline all Java Buzzwords? | 1 | 1 |
| 5 | Discuss about Abstract classes in java? | 1 | 1 |

**Part-B**

|  |  |  |  |
| --- | --- | --- | --- |
| SNO | THEORY | MARKS | TOTAL |
| 6. a) | Demonstrate how are Arrays Declared and Initialized in Java with suitable program? | 2.5 | 5 |
| b) | List the various primitive Data types available in java Explain? | 2.5 |
| 7.a) | What is recursion? Construct a java program to find the factorial of given number using recursion? | 2.5 | 5 |
| b) | What is Typecasting and explain its types with example program. | 2.5 |
| 8. | Discus about constructor and constructor overloading With Example program in Java? | 5 | 5 |
| 9. | Define package? How to create access and import the package in Java? Explain with an Example? | 5 | 5 |
| 10. | What is Inheritance? Discuss various forms of Inheritance with Suitable example? | 5 | 5 |
| 11. | List various keywords used to handle Exception and write a program to handle an exception? | 5 | 5 |