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**Date: 29-01-2021.**

**II.B.TECH- I-SEM (R22)-I MID Examinations-November-2023 Date: 24/11/2023**

**Subject: Object Oriented Programming through Java Time:10:00 TO 12:00**

**Branch: CSE, IT, CSC, CSD&CSM Marks: 30M**

***Answer all Questions in Part -A & Answer any FOUR Questions in Part -B***

**PART-A 5x2=10M**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | | **BTL** | | **CO** | |
| **1.**  **2.** | Define Super and sub class.  Explain OOPS concepts. | | 1 | | 2 | |
| **3.** | What is a Class and Object? | | 1 | | 2 | |
| **4.** | Distinguish between break and continue statement? | | 4 | | 1 | |
| **5.** | What is the role of CLASSPATH in packages? | | 1 | | 1 | |

**PART-B 4x5 M = 20 M**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **BTL** | **CO** |
| **6.** | a) Explain briefly about the Buzz words of Java? | 5 | 1 |
|  | b) Define polymorphism? Explain different types of polymorphism with an example program? | 1 | 1 |
|  |  |  |  |
| **7** | What is Interface? How to create it and access it? Explain with an example program? | 1 | 1 |
|  |  |  |  |
| **8** | a) How are Arrays Declared and Initialized in Java? Explain with suitable Java Program? | 1 | 2 |
|  | b) List the various primitive Data types available in java Explain? | 1 | 1 |
|  |  |  |  |
| **9** | a) Discus various forms of inheritance in Java with Examples? | 6 | 2 |
|  | b) Summarize the use of “Super Keyword” with inheritance? | 2 | 2 |
|  |  |  |  |
| **10** | What is a Stream? What are the differences between Byte stream and character stream? How are they used to capture input from the user? | 1 | 2 |
|  |  |  |  |
| **11** | What is Exception? Write a program to demonstrate exception handling in java. | 1 | 3 |

SCHEME OF EVALUATION

PART-A

|  |  |  |  |
| --- | --- | --- | --- |
| S NO | THEORY | MARKS | TOTAL |
| 1 | Define Super and sub class? | 2 | 2 |
| 2 | Explain OOPs concepts. | 2 | 2 |
| 3 | What is a Class and Object?. | 2 | 2 |
| 4 | Distinguish between break and continue statement? | 2 | 2 |
| 5 | What is the role of CLASSPATH in packages? | 2 | 2 |

PART-B

|  |  |  |  |
| --- | --- | --- | --- |
| S NO | THEORY | MARKS | TOTAL |
| 6 | a) Explain briefly about the Buzz words of Java?    b) Define polymorphism? Explain different types of polymorphism with an example program?  (or) | 3  2 | 5 |
| 7 | a) What is Interface?  b) How to create it and access it? Explain with an example program? | 1  4 | 5 |
| 8 | a) How are Arrays Declared and Initialized in Java? Explain with suitable Java Program?  b) List the various primitive Data types available in java Explain?  (or) | 3  2 | 5 |
| 9 | a) Discus various forms of inheritance in Java with Examples?  b) Summarize the use of “Super Keyword” with inheritance? | 2.5  2.5 | 5 |
| 10 | What is a Stream? What are the differences between Byte stream and character stream? How are they used to capture input from the user?  (or) | 5 | 5 |
| 11 | a) Explain Exception?  b) Write a program to demonstrate exception handling in java. | 2    3 | 5 |