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

**II.B.TECH- I-SEM (R22)-II MID Examinations-January-2024 Date: 25/01/2024**

**Subject: Object Oriented Programming through Java Time:01:30 TO 03:30 PM**

**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.** | What is auto boxing and un boxing in java | 1 | 3 |
| **2.** | What is the purpose of Thread group | 1 | 3 |
| **3.** | What is event source and listeners | 1 | 4 |
| **4.** | Compare and contrast AWT and Swing in java? | 4 | 5 |
| **5.** | Explain about various types of applets | 5 | 5 |

**PART-B 4\*5=20 M**

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **BTL** | **CO** |
| **6.** | a) Write Short note on thread life cycle?  b) Explain the process of creating thread by implementing Runnable interface? | 1 | 3 |
| **7** | a) What is an Exception? Explain different exception handling mechanism with java program  b) Explain how thread can be synchronized with example | 5 | 3 |
| **8** | a) Write a java program to demonstrate the handling mouse events?  b) Explain in detail about adapter classes with example? | 1 | 4 |
| **9** | a)Explain any Two Layout managers with program and output  b) Explain AWT class hierarchy? | 5 | 4 |
| **10** | Explain any Three swing components? | 5 | 5 |
| **11** | Explain with a neat diagram about MVC architecture | 5 | 5 |

SCHEME OF EVALUATION

PART-A

|  |  |  |  |
| --- | --- | --- | --- |
| S NO | THEORY | MARKS | TOTAL |
| 1 | What is auto boxing and un boxing in java | 2 | 2 |
| 2 | What is the purpose of Thread group | 2 | 2 |
| 3 | What is event source and listeners | 2 | 2 |
| 4 | Compare and contrast AWT and Swing in java? | 2 | 2 |
| 5 | Explain about various types of applets. | 2 | 2 |

PART-B

|  |  |  |  |
| --- | --- | --- | --- |
| S NO | THEORY | MARKS | TOTAL |
| 6 | a) Write Short note on thread life cycle?  b) Explain the process of creating thread by implementing Runnable interface?  (or) | 2  3 | 5 |
| 7 | a) What is an Exception? Explain different exception handling mechanism with java program.  b) Explain how thread can be synchronized with example | 2.5  2.5 | 5 |
| 8 | a) Write a java program to demonstrate the handling mouse events?  b) Explain in detail about adapter classes with example?  (or) | 3  2 | 5 |
| 9 | a)Explain any Two Layout managers with program and output.  b) Explain AWT class hierarchy? | 3  2 | 5 |
| 10 | a) define the Swings.  b) Explain any Three swing components?  (or) | 1  4 | 5 |
| 11 | Explain with a neat diagram about MVC architecture. | 5 | 5 |