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**IV.B.TECH- I-SEM (R20)-II MID EXAMINATIONS-NOVEMBER-2023 Date: 08.11.2023 Subject: Design Patterns Time: 10:00 TO 11:30 AM**

**Branch: IT Marks: 25 M**

***Answer All Questions In Part-A& Part-B***

**PART –A 5\*2=10 M**

|  |  |  |
| --- | --- | --- |
| **BTL** | | **CO** |
| 1) How composite design pattern be considered as Structural Design Pattern?. | **1** | **6** |
| 2) When will use Adapter Pattern? | **1** | **5** |
| 3) How to use the Mediator and Memento Pattern? | **1** | **7** |
| 4) What is Chain of Responsibility pattern?? | **1** | **7** |
| 5) What is a singleton creational pattern? | **1** | **4** |
|  |  |  |

**PART –B 5\*3=15 M**

|  |  |  |
| --- | --- | --- |
| **BTL** | | **CO** |
| 6) Elaborate the Observer design pattern.  **OR**  7) Describe the Builder Design pattern? | **6**  **1** | **7**  **4** |
| 8) Explain the Decorator Design pattern**.**  **OR**  9) Explain a bridge design pattern. | **1**  **1** | **6**  **5** |
| 10) List and explain the implementation issues of a Iterator pattern.  **OR**  11) Discuss in detail about the applicability of a command pattern? | **2**  **6** | **7**  **7** |

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | How composite design pattern be considered as Structural Design Pattern? | **2** | **2** |
| **2** | When will use Adapter Pattern? | **2** | **2** |
| **3** | How to use the Mediator and Memento Pattern? | **2** | **2** |
| **4** | What is hain of Responsibility pattern? | **2** | **2** |
| **5** | 5) What is a singleton creational pattern? | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Elaborate the Observer design pattern.  **OR** | **5** | **5** |
| **7** | Describe the Builder Design pattern? | **5** |  |
| **8** | Explain the Decorator Design pattern**.**  **OR** | **5** | **5** |
| **9** | Explain a bridge design pattern. | **5** |  |
| **10** | List and explain the implementation issues of a Iterator pattern.  **OR** | **5** | **5** |
| **11** | Discuss in detail about the applicability of a command pattern? | **5** |  |