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**IV.B.TECH- I-SEM (R20)-I MID EXAMINATIONS-AUGUST-2023 Date: 30/08/2022**

**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) What is a design pattern? | **1** | **1** |
| 2) How to Use a Design Pattern? | **1** | **1** |
| 3) Explain the type of Design Pattern**?** | **1** | **2** |
| 4) Explain Embellishing the user interface. | **1** | **2** |
| 5) List and explain the implementation issues of factory method. | **2** | **3** |

**PART –B 5\*3=15 M**

| **BTL** | | **CO** |
| --- | --- | --- |
|  | |  |
| 6) Discuss about the design patterns in Smalltalk MVC?  **OR**  7) Explain the Catalog of Design pattern. | **6**  **1** | **1**  **1** |
| 8) Explain the Design Problem with neat diagram in Design Pattern**.**  **OR**  9) Describe the supporting Multiple Window Systems.? | **1**  **1** | **2**  **2** |
| 10) List and explain the implementation issues of factory method.  **OR**  11) Elaborate the creational patterns for abstract factory. | **2**  **6** | **3**  **3** |

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | What is a design pattern? | **2** | **2** |
| **2** | How to Use a Design Pattern? | **2** | **2** |
| **3** | Explain the type of Design Pattern**?** | **2** | **2** |
| **4** | Explain Embellishing the user interface. | **2** | **2** |
| **5** | List and explain the implementation issues of factory method. | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | Discuss about the design patterns in Smalltalk MVC?  **OR** | **5** | **5** |
| **7** | Explain the Catalog of Design pattern. | **5** |  |
| **8** | Explain the Design Problem with neat diagram in Design Pattern**.**  **OR** | **5** | **5** |
| **9** | Describe the supporting Multiple Window Systems.? | **5** |  |
| **10** | List and explain the implementation issues of factory method.  **OR** | **5** | **5** |
| **11** | Elaborate the creational patterns for abstract factory. | **5** |  |