

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

**IV.B.TECH- I-SEM (R20)-II MID EXAMINATIONS-NOVEMBER-2023 Date: 10.11.2023.**

**Subject: Introduction to Embedded System Time: 10:00 TO 11:30 AM**

**Branch: CSC, IT-A&CSM-C Marks: 25 M**

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

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

1. Explain about Object to Hex file conversion . (CO1) [BTL1]
2. Define kernel space and user pace. (CO1) [BTL2]
3. What is a Hard real time system? (CO2) [BTL2]
4. What is the role of a Pipe in task communication? (CO2) [BTL1]
5. Define task communication. (CO3) [BTL1]

**PART-B 3 x5=15 M**

1. What are the advantages of Assembly Language based Development? (CO1) [BTL2]

**(OR)**

7. Explain about High Level Language based Development. (CO1) [BTL2]

1. Describe Multiprocessing and Multitasking mechanisms in OS. (CO2) [BTL2]

**(OR)**

1. With help of a diagram explain about Process states and State Transition. (CO2) [BTL2]

1. Explain about Remote Procedure call and Sockets in detail. (CO3) [BTL2]

**(OR)**

11. Describe the Task Synchronization issues in detail. (CO3) [BTL2]

**SCHEME OF EVALUATION**

**Part –A**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **1** | Explain about Object to Hex file conversion | **2** | **2** |
| **2** | Define kernel space and user pace. | **2** | **2** |
| **3** | What is a Hard real time system? | **2** | **2** |
| **4** | What is the role of a Pipe in task communication? | **2** | **2** |
| **5** | Define task communication. | **2** | **2** |

**Part –B**

| **SNO** | **THEORY** | **MARKS** | **TOTAL** |
| --- | --- | --- | --- |
| **6** | What are the advantages of Assembly Language based Development?  **(OR)** | **5** | **5** |
| **7** | Explain about High Level Language based Development. | **5** |  |
| **8** | Describe Multiprocessing and Multitasking mechanisms in OS.  **(OR)** | **5** | **5** |
| **9** | With help of a diagram explain about Process states and State Transition. | **5** |  |
| **10** | Explain about Remote Procedure call and Sockets in detail.  **(OR)** | **5** | **5** |
| **11** | Describe the Task Synchronization issues in detail. | **5** |  |