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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**CIA – I EXAM**

**YEAR/SEM : II / IV MAX. MARKS : 75 Marks**

**SUBJECT CODE : CS E48 SUBJECT NAME : Mobile Computing**

**DATE : 13.03.2024** **DURATION : 3.00 Hrs**

**SECTION –A (20 Marks)**

**PART - I (10 x 2 = 20 Marks)**

**Answer the Questions**

|  |  |  |  |
| --- | --- | --- | --- |
| 1. | Define Mobile Computing | **K1** | **CO1** |
| 2. | Define spread spectrum modulation scheme. | **K1** | **CO1** |
| 3. | What is GSM? | **K2** | **CO1** |
| 4. | What is MSS? | **K2** | **CO1** |
| 5. | What are the major categories of Wireless technologies? | **K4** | **CO1** |
| 6. | Define UMTS | **K1** | **CO2** |
| 7. | Define ACTS | **K1** | **CO2** |
| 8. | Define pilot channel. | **K1** | **CO2** |
| 9. | What is soft hand-off | **K2** | **CO2** |
| 10. | Define Universally Unique Identifiers. | **K1** | **CO2** |

**SECTION – B (55 Marks) – PART II (5 x 11 = 55 Marks)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Answer the Questions** | | | | **Marks** |  |  |
| 11. | Explain in Detail about Digital Cellular System | | | 11 | **K2** | **CO1** |
| **(or)** | | | | |  |  |
| 12. | Explain Palm-top Computers and Hand held Computer | | | 11 | **K2** | **CO1** |
|  | | | | |  |  |
| 13. | Explain briefly about TDMA,CDMA | | | 11 | **K1** | **CO1** |
| **(or)** | | | | |  |  |
| 14. | Write the limitations of the wireless and mobile environment | | | 11 | **K2** | **CO1** |
|  | | | | |  |  |
| 15. | List and discuss various wireless network techniques in detail | | | 11 | **K4** | **CO1** |
| **(or)** | | | | |  |  |
| 16. | | | Explain in Detail about the Third Generation Wireless Networks | 11 | **K4** | **CO2** |
|  | | | | |  |  |
| 17. | | | Explain the End User Applications | 11 | **K2** | **CO2** |
|  | | | | |  |  |
| 18. | | Write short note on Unicast and Multicast discovery | | 11 | **K2** | **CO2** |
|  | |  | |  |  |  |
| 19. | | Write notes on Mobility Middleware | | 11 | **K2** | **CO2** |
| **(or)** | | | |  |  |  |
| 20. | | Discuss the need for mobile agents and explain the components of mobile agent architecture in detail | | 11 | **K2** | **CO2** |

**Blooms Taxonomy:**

**K1** – Remember, **K2** – Understand, **K3** – Apply, **K4** - Analyze, **K5** – Evaluate, **K6** – Create

**Mapping of Course Outcome (CO) to Programme Outcomes (PO)**

**Department of Computer Science And Engineering**

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Course Cos** | **Mapping with POs** | | | | | | | | | | | |
| **PO1** | **PO2** | **PO3** | **PO4** | **PO5** | **PO6** | **PO7** | **PO8** | **PO9** | **PO10** | **PO11** | **PO12** |
| **CO1** | **M** | **H** | **M** | **M** | **M** | **-** | **-** | **-** | **-** | **-** | **H** | **H** |
| **CO2** | **M** | **H** | **M** | **M** | **M** | **-** | **-** | **-** | **-** | **-** | **H** | **H** |

**H** – High Correlation, **M** – Medium Correlation, **L** – Low Correlation