

No Preview
Available

Total No. of Question : [4]

Registration No. :

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Programme Name : Computer Science & Engineering(AI ML)
Regular S.Y.B.Tech.Sem.IV ESE May / June 2023
IV SEMESTER (2021 BATCH)
201AIMLL211-Operating Systems

Duration :

Marks : 50

Instructions :

(Q1) All Questions are compulsory [20.0]

(1.1) Give overview of design and implementation of Operating System. [6.0]

CO :- CO1

Blooms Taxonomy :- Understand

(1.2) What is process synchronization ? Explain following terms : [7.0]

1. Race Condition
2. Critical Sections

CO :- CO2

Blooms Taxonomy :- Understand

(1.3) Explain Deadlock in Resource allocation with RRAG and Matrix Model ? [7.0]

CO :- CO2

Blooms Taxonomy :- Understand

(Q2) All Questions are compulsory [10.0]

(2.1) Explain Least recently used (LRU) page replacement policy with suitable example ? [6.0]

CO :- CO4

Blooms Taxonomy :- Analyze

OR [2.1 / 2.2]

(2.2) Explain Virtual Memory which is also called as Demand Paging with suitable diagram ? [6.0]

CO :- CO3

Blooms Taxonomy :- Apply

(2.3) Explain below approaches used in Noncontiguous Memory allocation [4.0]

1. Paging
2. Segmentation

CO :- CO3

Blooms Taxonomy :- Apply

(Q3) All Questions are compulsory [10.0]

(3.1) What is Directories ? Explain with fields in a typical directory entry ? [6.0]

CO :- CO3

Blooms Taxonomy :- Apply

OR [3.1 / 3.2]

(3.2) List down I/O devices and explain Magnetic Disks with suitable diagram ? [6.0]

CO :- CO3

Blooms Taxonomy :- Apply

(3.3) Explain operations on Directories ? [4.0]

CO :- CO3

Blooms Taxonomy :- Apply

(Q4) Attempt any two out of three questions [10.0]

(4.1) What is the role of System Administration ? [5.0]

CO :- CO3

Blooms Taxonomy :- Apply

(4.2) Explain Architecture of UNIX OS with Block Diagram of the system kernel ? [5.0]

CO :- CO4

Blooms Taxonomy :- Analyze

(4.3) Explain Following System calls with syntax and example . [5.0]

1. OPEN 2.READ 3.WRITE 4.CLOSE 5.LSEEK

CO :- CO1

Blooms Taxonomy :- Understand
