OSY-PT-2-QUESTION-BANK

Fourth Semester CT-2 Class Test (2024-2025)

Branch/Semester : CO5I (Set 1)

Subject	*Operating System (22516)*	Max Marks	*20.00*
Date		Time	

Set-1

Question No.	Question	CO's	R-U-A
Q1	**Attempt Any FOUR (08)**		
a	Draw a neat labelled diagram for process state	d	R
b	Define: Interprocess Communication along with Shared memory	d	R
c	List any four file attributes and its meaning	c	R
d	Define: CPU utilization and Throughput	e	R
e	Explain: Multilevel queue scheduling	c	U
f	Define: Thread and its types	e	R
Q2	**Attempt Any THREE (12)**		
a	Explain Round Robin algorithm with suitable example	c	A
b	Enlist different file allocation methods? Explain contiguous allocation method in detail	d	U
c	Explain PCB with diagram	c	U
d	Describe I/O burst and CPU burst cycle with neat diagram	d	U
e	The jobs are scheduled for execution as follows Process P1 P2 P3 P4 Arrival Time 0, 1, 2, 3, 4, Burst Time 7, 4, 10, 6, 8. Solve the problem using: (i) SJF (ii) FCFS Also find average waiting time using Gantt chart	e	A

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Subject	*Operating System (22516)*	Max Marks	*20.00*
Date		Time	

Set–2

Question No.	Question	CO's	R-U-A
Q1	**Attempt Any FOUR (08)**		
a	State difference between preemptive scheduling and non-preemptive scheduling	c	R
b	Describe linked file allocation method	d	R
c	Define: Turnaround time and Waiting time	e	R
d	Differentiate between process and thread (any two points)	c	R
e	Difference between long term and short term scheduler (any two points)	d	R
f	State and describe any two scheduling criteria	c	U
Q2	**Attempt Any THREE (12)**		
a	Describe one-to-one multithreading model with suitable diagram. Also write any two advantages of one-to-one model over many-to-one model	e	A
b	State and describe types of scheduler	d	U
c	Describe sequential and direct access method	e	A
d	Explain deadlock? What are necessary conditions for deadlock?	d	A
e	Describe the following directory structures in short with neat sketches: i) Single level ii) Two level iii) Tree structured	e	A

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