



MARWADI EDUCATION FOUNDATION

Faculty of Engineering

(DEPARTMENT OF COMPUTER ENGINEERING)

B.E. SEM: 4 MID-SEM. EXAM: II JUNE-2022

Subject: - (OS) (3140702)

Date:-07-06-2012

Total Marks:-30

Time: - 75 Minutes

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

Question: 1.

[6]

- (a) What is paging? What is Page Table? [03]
- (b) Define Virtualization and write its benefits. [03]

Question: 2.

[12]

- (a) Explain Dining Philosopher Problem in detail. [06]
- (b) Discuss the Performance Evolution of FIFO and LRU Page Replacement Algorithm With example. [06]

OR

- (b) Explain Deadlock Avoidance using Banker's Algorithm with illustration.

Question: 3.

[12]

- (a) Explain DMA with diagram. [08]
- (b) Compare Multiprogramming with Fixed Partition and Multiprogramming with Variable Partitions with diagram. [04]

OR

- (a) Define Deadlock. Explain Strategies to Recover Deadlock Situation. [08]
- (b) Discuss the Performance Evolution of C-Scan disk arm scheduling algorithm with example. [04]

---Best of Luck---

- Bloom'S Taxonomy Report -

Sub: OPERATING SYSTEM

Sem.:4

Branch: CE

Que. Paper weightage as per Bloom's Taxonomy

LEVEL	% of weightage	Question No.	Marks of Que.
Remember/Knowledge	31.25	Q1-(A), Q3-(A),Q3-(A)(OR)	15
Understand	43.75	Q1-(B),Q-2(A), Q-2(B)(OR),Q3-(B),	21
Apply	0	-	-
Analyze	0	-	-
Evaluate	25	Q3-(B)(OR),Q2-(B)	12
Higher order Thinking/ Creative	0	-	-

