Enroll. No.



MARWADI EDUCATION FOUNDATION

Faculty of Engineering

(DEPARTMENT OF COMPUTER ENGINEERING)

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

Subject: - (0S) (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 [06] With example.

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 [04] Partitions with diagram.

OR

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

---Best of Luck---

[08]

- Bloom'S Taxonomy Report -

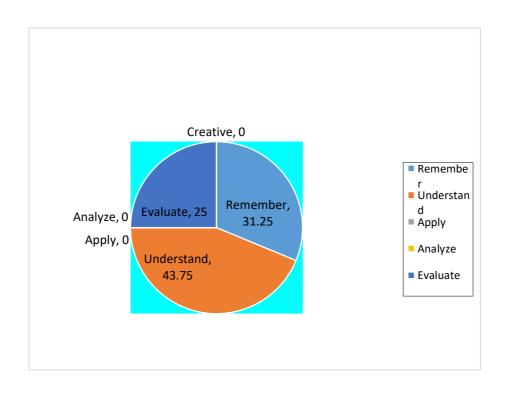
Sub: OPERATING SYSTEM

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	-	-



2 | Page MEFGI