

INTERNAL ASSIGNMENT - 1

Course	BCA	
Semester	3	Introduction to Operating System
Total Marks:	15	

Q.1.	Write answers for an	v two auestions fro	om below. (5 ma	rks each - Word	limit - 500
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- **A.** Differentiate between UNIX and Windows based operating systems.
- **B.** Explain in detail the role of Operating system as a resource Manager.
- **C.** What are MVT and MFT job scheduling algorithms? When are they used? Write any five differences between MVT and MFT.

- Q.2. Write short notes on all of the following topics (1 mark each Word limit 100)
- **A.** CPU utilization
- **B.** DMA(Direct Memory Access
- C. Semaphore
- **D.** No preemption condition
- E. Look and C-Look scheduling



INTERNAL ASSIGNMENT - 2

Course	BCA	
Semester	3	Introduction to Operating System
Total Marks:	15	7

Q.1.	Write answers for an	y two questions	from below.	(5 marks each -	- Word limit –	500)
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- **A.** Why page replacement algorithms are required? What happens without page replacement algorithms? Explain any one Page Replacement algorithms with a suitable example?
- **B.** Internal and external fragmentations are common in the Operating System memory management. What are the ways to calculate the internal and external fragmentations?
- **C.** What is Dinning-Philosophers problem? Narrate the situation of dinning philosopher's problem. Also write a code to demonstrate the Dinning Philosopher's situation.

Q.2. Write short notes on all of the following topics (1 mark each - Word limit - 100)

- A. Dead lock
- **B.** Process Progress
- **C.** Context switch
- **D.** Tree structure directory
- **E.** Disk scheduler