TB153130A	Reg. No:
	Name:
B. Sc. DEGREE (C.B.C.S.S.) E	XAMINATION, OCTOBER, 2016
SEMESTER III - CORE COURS	SE (COMPUTER APPLICATIONS)

Time: Three Hours Maximum Marks: 80

CAC3B06TB - OPERATING SYSTEMS

PART A

I. Answer all questions. Each question carries 1 mark

- 1. Define Turnaround time.
- 2. Define Dispatcher.
- 3. What is Swapping?
- 4. What do you mean by Critical Section?
- 5. What is aging?
- 6. What is a frame?

(6x1=6)

PART B

II. Answer any seven of the following questions. Each question carries 2 marks

- 7. Define System calls. What are the different types of System Calls.
- 8. Differentiate I/O bound and CPU bound Process.
- 9. What is the difference between Logical address and Physical address?
- 10. Define Deadlocks. What are the necessary Conditions for deadlock?
- 11. What is a file? List the different attributes of a file.
- 12. What do you mean by context switching?
- 13. Define different states of process.
- 14. Explain Resource Allocation Graph.
- 15. Define Internal and External Fragmentation.
- 16. Differentiate Contiguous and Linked allocation methods.

(7x2=14)

PART C

III. Answer any five of the following questions. Each question carries 6 marks

- 17. Explain the various services provided by OS.
- 18. Explain Virtual Memory in detail.
- 19. Define PCB. Explain its content with neat diagram.
- 20. Explain message passing system in Inter Process Communication.
- 21. Explain Single level and two level directory structure.
- 22. Explain different deadlock recovery methods.

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- 23. Define Semaphore and its different types. How do you implement it?
- 24. Discuss various operations that could be performed on a file.

(5x6=30)

PART D

IV. Answer any two of the following questions. Each question carries 15 marks

- 25. Explain different CPU Scheduling Algorithms.
- 26. Explain different types of OS.
- 27. Explain Paging and Segmentation methods in detail.
- 28. Explain the different problems of Synchronization.

(2x15=30)