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B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, MAY 2016

Second Semester

Vocational Subject - Computer Science

INTRODUCTION TO OPERATING SYSTEM AND OS AS RESOURCE MANAGER

(For Model II B.Sc. Mathematics)

[2013 Admission onwards]

Time: Three Hours

Maximum Marks: 80

Part A (Short Answer Questions)

Answer all questions.

	1 mark each.
1.	The process of loading the OS is called
2.	The term "NT" in "Windows NT" stands for
3.	The information about each process in a recored in
4.	Define Kernel.
5.	Define Device Driver.
6.	What is blocked state?
7.	What is the expansion of MS DOS?

8. Spliting the program into pieces is called _____

NRU algorithm refers to the ______ memory management policy.

PMT stands for ____

 $(10 \times 1 = 10)$

Part B (Brief Answer Questions)

Answer any eight questions. 2 marks each.

- 11. What is Batch processing?
- 12. Differentiate between multitasking and multiprogramming.
- 13. What is meant by context switching?
- 14. Explain the term speoling.
- 15. Define Swapping.

Turn over

- 16. What is compaction?
- 17. What is meant by paging?
- 18. Define safe state.
- 19. What is a dead lock?
- 20. What is the difference between pre-emptive and non-pre-emptive scheduling?
- 21. What is Interrupt Service Routine?
- 22. What are file attributes?

 $(8 \times 2 = 16)$

Part C (Descriptive/Short Essay Type Questions)

Answer any six questions.

4 marks each.

- 23. Explain different types of OS.
- 24. Discuss about various process states with diagram.
- 25. Explain different types of process termination.
- 26. Discuss multiprogramming with fixed partitioning.
- 27. Explain the concept of allocation of frames.
- 28. Explain the concept of segmentation.
- 29. Explain File allocation methods.
- 30. Define disk allocation strategies and their demerits.
- 31. What are the various components of GUI like windows?

 $(6 \times 4 = 24)$

Part D (Long Essay)

Answer any two questions.

15 marks each.

- 32. Explain in detail about various scheduling algorithm.
- In detail, explain, First fit, Best fit and worst fit for disk space allocations with their merits and demerits.
- 34. Explain in detail about dead lock detection and recovery.
- 35. What are the different methods of implementing file storage? Explain.

 $(2 \times 15 = 30)$