

**6229**  
**BOARD DIPLOMA EXAMINATION**  
**MARCH/APRIL - 2019**  
**DIPLOMA IN COMPUTER ENGINEERING**  
**OPERATING SYSTEMS**  
**THIRD SEMESTER EXAMINATION**

**Time: 3 Hours**

**Total Marks: 60**

**PART - A (3m x 10 = 30m)**

*Note 1: Answer all questions and each question carries 3 marks*

*2: Answers should be brief and straight to the point and shall not exceed 5 simple sentences*

1. List the services of Operating System.
2. Define Operating System.
3. What is a queuing diagram?
4. What are Short, Long and Medium term scheduling.
5. What three issues must be considered in the case of pre-emption.
6. List the advantages and disadvantages of fixed partitioning.
7. What is a Working set?
8. Write a brief note on Look disk scheduling.
9. Define Indexed allocation method.
10. Write about file management.

**PART - B (10m x 5 = 50m)**

*Note 1: Answer any five questions and each question carries 10 marks*

*2: The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer*

11. Explain the System call sequence with the help of a diagram.
12. Explain the Priority Scheduling algorithm with an example.
- \* 13. Explain all the strategies involved in deadlock detection and how it is recovered.
14. Explain multilevel queue scheduling techniques.
15. Explain about Segmentation.
16. Explain the Paging Concept in detail.
- \* 17. Explain various Disc allocation methods.

18. (a) List and explain any five file operations.  
(b) List any five functions of file management systems .

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