



**MSIT 13**

**I Semester M.Sc. (I.T.) Examination, Dec. 2009/Jan. 2010  
(Repeater)  
ADVANCED OPERATING SYSTEMS**

Time : 3 Hours

Max. Marks : 75

*Instruction : Answer all questions from Part – A and any five questions from Part – B.*

**PART – A**

1. What is seek time ? **(10×2+5×1=25)**
2. What is encryption ?
3. What is two-level directory ?
4. What is tightly coupled ?
5. What is spooling ?
6. What is context switch ?
7. What is the need for good user-friendly GUI ?
8. List four popular operating systems.
9. List types of message passing.
10. What is thrashing ?
11. Write a short note on :
  - a) Define File.
  - b) MMU stands for \_\_\_\_\_
  - c) Define seek time.
  - d) Job scheduling brings in the ability of \_\_\_\_\_
  - e) Define TSL.

**P.T.O.**

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**PART – B**

1. Explain different scheduling algorithms. **(5×10=50)**
2. Explain computer virus in detail.
3. Explain with example a producer-consumer problem.
4. Explain the paging concept with the help of a neat diagram.
5. Discuss different file access methods.
6. Explain public-key encryption in detail.
7. Explain various multiprocessor interconnections.
8. Explain RPC with a neat diagram.

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