





- a) What is multithreading? Explain the benefits of multithreading. **07**
- b) Explain models of multithreading. **07**

**Q-4          Attempt all questions**

- a) Explain computer system architecture with diagram. **07**
- b) What is file? What are the differences between file and directory? **07**  
Explain various file attributes and file operations in brief.

**Q-5          Attempt all questions**

- a) Explain swapping with suitable diagram. **07**
- b) Explain types of partition of memory. **07**

**Q-6          Attempt all questions**

- a) Explain internal and external fragmentation. **07**
- b) What is segmentation? Explain with example. **07**

**Q-7          Attempt all questions**

- a) What is paging? Explain with example. **07**
- b) Explain types of scheduling. **07**

**Q-8          Attempt all questions**

- a) What is Virtual Memory? Write short note on Demand Paging with suitable example **07**
- b) Discuss about performance of First Come First Serve and Least Recently Used page replacement algorithms with example. **07**

