



5. Briefly discuss the various contiguous and non-contiguous memory management techniques.
6. What is Virtual memory? What is the need of virtual memory? Discuss the technique of paging in detail.

#### **SECTION D**

7. Explain in detail the structure of a Disk.
8. What are the various threats to the security of a system? Elaborate on the various protection mechanism.

#### **SECTION E**

9.
  - a) What information is stored in Process Control Block?
  - b) What is the difference between short term scheduler and long term scheduler?
  - c) Define turnaround time.
  - d) What is the difference between I/O burst and CPU burst?
  - e) What do you mean by pre-emption?
  - f) Define logical address space.
  - g) What are the limitations of using inverted page tables?
  - h) Which of the disk scheduling algorithms cause starvation and why?
  - i) What are the attributes of a file?
  - j) What are the reasons for page faults?