



**SECTION-B**

2.
  - a) What are the functions of an Operating System?
  - b) Explain sub systems : Top Layer, Middle Layer and Bottom Layer
3. Write short notes on :
  - a) Process State Diagram
  - b) Inter process Communication
4. Write short notes on :
  - a) Page replacement
  - b) Loading, Linking and relocation
5. What are the different techniques of File Management? Explain in detail.
6. Explain :
  - a) Different File Operations
  - b) Directory Structures and management
7. What is the role of software and hardware in the security of system? How will the system be protected from unauthorized use and Virus?