



- Q-4**            **Attempt all questions**
- (1) Discuss deadlock prevention in detail (7)
  - (2) Explain segmentation in detail (7)
- Q-5**            **Attempt all questions**
- (1) Explain recovery from deadlock (7)
  - (2) Write a note on: Virtual Memory (7)
- Q-6**            **Attempt all questions**
- (1) Discuss page replacement algorithm (7)
  - (2) Explain file and directory structure in detail (7)
- Q-7**            **Attempt all questions**
- (1) Describe wc command with options and example (7)
  - (2) Describe various modes of vi editor in detail (7)
- Q-8**            **Attempt all questions**
- (1) Write a shell script to perform arithmetic operations (7)
  - (2) Write a shell script to calculate area of circle ( $\text{area}=\pi*r^2$ ) (7)

