Time :- 02:30 HRS   *April : 2017.*   Total Marks :70

Q.1 (a) Write a note on Evolution of Operating System. [7]

    (b) Discuss Multiprogramming systems in detail. [7]

OR

Q.1 (a) Discuss in detail: Process Control Block. [7]

    (b) What is Operating System? Explain time sharing systems. [7]

Q.2 (a) Explain Process states in detail. [7]

    (b) Write a note on virtual memory. [7]

OR

Q.2 (a) Discuss any of the scheduling algorithms. [7]

    (b) What is paging? Discuss page replacement algorithm. [7]

Q.3 (a) What is deadlock? Explain deadlock prevention. [7]

    (b) Write a note on detection and avoidance of deadlock. [7]

OR

Q.3 (a) When deadlock occurs in system? Why and how? [7]

    (b) Explain deadlock in brief. [7]

Q.4 (a) What is multiprogramming System? How it works? [7]

    (b) Explain memory management in multiprogramming system. [7]

OR

Q.4 (a) Discuss disk scheduling. [7]

    (b) Explain queue management in multiprogramming system. [7]

Q.5 (a) Compare and contrast: Unix and Linux. [7]

    (b) Write a note on shell programming. [7]

OR

Q.5 (a) Explain command line arguments in shell program with example. [7]

    (b) Write a note on interrupt handler. [7]