B.SC. (I.T.) Sem-3, oct-Nov- 2017

Code: 20647

Paper No. CC-306 : - Operating System-I

Time: 02:30 Hours   **Total Marks: 70**

Q.1 (a) Explain evolution of operating system in detail. [7]

  (b) Discuss components of operating system. [7]

OR

Q.1 (a) Explain various functions of operating system. [7]

  (b) Discuss terms : command interpreter, jobs and processes files. [7]

Q.2 (a) Write a note on types of operating system. [7]

  (b) Explain in detail client server system. [7]

OR

Q.2 (a) Write a note on parallel and distributed system. [7]

  (b) Explain Real time system with example. [7]

Q.3 (a) Explain FIFO scheduling algorithm with performance evaluation. [7]

  (b) Discuss process states in detail. [7]

OR

Q.3 (a) Explain interrupt mechanism in detail. [7]

  (b) Explain priority scheduling in depth. [7]

Q.4 (a) What is deadlock? Write necessary conditions to occur deadlock. [7]

  (b) Discuss concept of single and multithreads. [7]

OR

Q.4 (a) Explain types of threads. [7]

  (b) Discuss : deadlock preventions, avoidance and detection. [7]

Q.5 (a) Discuss the paging with concept of page allocation. [7]

  (b) Write a note on segmentation. [7]

OR

Q.5 (a) Discuss disadvantages of paging. [7]

  (b) Explain logical and physical address map. [7]