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UDHA — IT (2)

2017

Time : 3 hours

Full Marks : 50

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

*Answer any **five** questions.*

1. What is an Operating System ? Give the features of Real Time Operating System and Time Sharing Operating System. 10
2. What do you mean by system call ? Discuss system call parameters. Also discuss different types of system calls. 10
3. (a) What is Process Control Block ? Explain various entries of it. 8
(b) Difference between process and thread. 2

4. Explain Round Robin Shortest Job First and Priority Scheduling Algorithms with illustration. 10
5. Explain the following page replacement algorithms : 10
- (a) FIFO
 - (b) LRU
 - (c) Optimal
6. (a) Discuss differences between paging and segmentation. 4
- (b) Explain about disk free space management. 6
7. (a) Write short note on linked allocation method for files. 5
- (b) Explain various types of program threats. 5
8. Explain FCFS, SSTF, SCAN and CSCAN disk scheduling algorithms with example. 10

9. Explain Files and Directory Management in LINUX Operating System. 10
10. Write short notes on the following :
- (a) Direct Memory Access(DMA) 5
 - (b) Virtual Memory Management 5

