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BSC(IT),2ND SEM,MAY –2014

OPERATING SYSTEM

Paper Code (BS-203)

Paper Id. [B0410]

Time Allowed: 3 Hrs. Max. Marks: 60

Note: Section A is compulsory. Attempt any four questions from Section B.

Section-A

Q 1 Answer briefly

a What is a system call and what is its use?
b Draw and explain process state diagram.
c What is Belady's anomaly?
d Define locality of reference.
e What is a semaphore?
f What is a partition?
g What is the seek time?
h What are the necessary conditions for a deadlock?
i How two level directory structures differ from single level directory?
j Differentiate between system threats and program threats? (10 x 2 = 20)

Section-B

Q 2 What is operating system? Explain different types of the operating systems. (10)

Q 3 Explain different page replacement techniques in virtual memory. (10)

Q 4 What is disk scheduling? Explain the procedure of selection of best scheduling algorithm. (10)

Q 5 What is a deadlock? Discuss the deadlock avoidance method and algorithm? Illustrate with the examples. (10)

Q 6 What is process synchronization? Explain different 2 process algorithms for the process synchronization. (10)

Q 7 Differentiate between CPU scheduling and job scheduling. How can we measure the performance of a scheduling algorithm? (10)

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