

Code.No: RR311904

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SET-1

III B.TECH – I SEM EXAMINATIONS, NOVEMBER - 2010
OPERATING SYSTEMS AND SYSTEMS PROGRAMMING
(ELECTRONICS AND COMPUTER ENGINEERING)

Time: 3hours**Max.Marks:80**

Answer any FIVE questions
All questions carry equal marks

- - -

- 1.a) Distinguish the buffering and spooling concepts.
b) Compare and Contrast batch processing and time sharing operating systems. [8+8]
- 2.a) Define the terms context switching, dispatchers.
b) State and explain various types of CPU schedulers. [6+10]
3. Explain the critical section problems through bounded buffer producer consumer problem. [16]
- 4.a) State and brief the necessary conditions for a deadlock formation.
b) Write the Banker's Algorithm. [6+10]
5. Explain in detail about segmentation with hardware diagrams and segment table implementation. [16]
6. Describe about File directory structures and explain the advantages and disadvantages. [16]
7. Describe the design of single pass Assembler and give the format of data structures used in it. [16]
8. Explain the design of a Relocatable linking loader with suitable examples. [16]

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SET-2

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SET-3

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SET-4

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