

5E3255-R

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**B. Tech. (Sem. V) (Main) Examination, December - 2011**  
**Computer Science**  
**5CS5 Operating System (Common for Computer & IT)**

Time : 3 Hours]

[Maximum Marks : 80  
[Min. Passing Marks : 24

**Instructions to Candidates :**

*Attempt any five questions selecting one question from each unit. All questions carry equal marks. Schematic diagrams must be shown wherever necessary. Any data you feel missing suitably be assumed and stated clearly. Units of quantities used/calculated must be stated clearly.*

Use of following supporting material is permitted during examination.  
(Mentioned in form No. 205)

1. NIL 2. NIL

**UNIT - I**

- 1 (a) Write short note on early operating system. List the difference between Multiprogramming and Time-sharing systems. 8
- (b) Explain the architecture of an operating system. 8

**OR**

- 1 (a) List out the various process states and briefly explain with a state diagram. 8
- (b) What do you mean by processor scheduling ? Explain the various levels of scheduling. 8

**UNIT - II**

- 2 (a) In an OS that supports threads, is there one stack per process of one stack per thread with
- (i) Kernal-level threads
- (ii) User level threads 8

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