

Code No: R05411105

R05**Set No. 2****IV B.Tech I Semester Examinations, November 2010****OPERATING SYSTEMS**

**Common to Bio-Medical Engineering, Electronics And Telematics,
Electronics And Communication Engineering**

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

**Answer any FIVE Questions
All Questions carry equal marks**

1. Consider the following set processes:

Process Name	Arrival Time	Processing Time
A	0	3
B	1	5
C	3	2
D	9	5
E	12	5

Develop a Gantt-chart to show the execution pattern using following policies:

(a) FCFS

(b) SPN

(c) SRT

(d) HRRN

(e) RR(q=1)

(f) RR(q=4)

(g) Feedback(q=1)

(h) Feedback($q=2^i$)

[8×2]

2. (a) Compare disk compaction with memory compaction. How are they same and how are they different?

(b) How do inodes work in UNIX file system?

[8+8]

3. (a) Discuss about network worm programs.

(b) Explain statistical anomaly detection, rule-based detection approach to intrusion detection.

[8+8]

4. Explain about various Multithreading models.

[16]

5. Explain the following Inter- processor Communication Mechanisms in UNIX for the Deadlocks.

(a) Semaphores

(b) Signals

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6. Explain segmentation scheme for memory management. Give the segmentation hardware. [16]
7. Write a solution to the Bounded-Buffer Producer/Consumer problem using semaphores. [16]
8. Explain about sequential interrupt processing with diagram. [16]

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R05**Set No. 4****IV B.Tech I Semester Examinations, November 2010****OPERATING SYSTEMS****Common to Bio-Medical Engineering, Electronics And Telematics,
Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Discuss about network worm programs.
(b) Explain statistical anomaly detection, rule-based detection approach to intrusion detection. [8+8]
2. Explain segmentation scheme for memory management. Give the segmentation hardware. [16]
3. Write a solution to the Bounded-Buffer Producer/Consumer problem using semaphores. [16]
4. Consider the following set processes:

Process Name	Arrival Time	Processing Time
A	0	3
B	1	5
C	3	2
D	9	5
E	12	5

Develop a Gantt-chart to show the execution pattern using following policies:

- (a) FCFS
- (b) SPN
- (c) SRT
- (d) HRRN
- (e) RR(q=1)
- (f) RR(q=4)
- (g) Feedback(q=1)
- (h) Feedback(q=2ⁱ) [8×2]
5. Explain about various Multithreading models. [16]
6. Explain about sequential interrupt processing with diagram. [16]
7. Explain the following Inter- processor Communication Mechanisms in UNIX for the Deadlocks.

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- (a) Semaphores
 - (b) Signals [16]
8. (a) Compare disk compaction with memory compaction. How are they same and how are they different?
- (b) How do inodes work in UNIX file system? [8+8]

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R05**Set No. 1****IV B.Tech I Semester Examinations, November 2010****OPERATING SYSTEMS****Common to Bio-Medical Engineering, Electronics And Telematics,
Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
All Questions carry equal marks**

1. Explain about various Multithreading models. [16]
2. Explain segmentation scheme for memory management. Give the segmentation hardware. [16]
3. Consider the following set processes:

Process Name	Arrival Time	Processing Time
A	0	3
B	1	5
C	3	2
D	9	5
E	12	5

Develop a Gantt-chart to show the execution pattern using following policies:

- (a) FCFS
 - (b) SPN
 - (c) SRT
 - (d) HRRN
 - (e) RR(q=1)
 - (f) RR(q=4)
 - (g) Feedback(q=1)
 - (h) Feedback(q=2ⁱ) [8×2]
4. (a) Discuss about network worm programs.
 - (b) Explain statistical anomaly detection, rule-based detection approach to intrusion detection. [8+8]
 5. (a) Compare disk compaction with memory compaction. How are they same and how are they different?
 - (b) How do inodes work in UNIX file system? [8+8]
 6. Explain about sequential interrupt processing with diagram. [16]

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7. Explain the following Inter- processor Communication Mechanisms in UNIX for the Deadlocks.
- (a) Semaphores
 - (b) Signals [16]
8. Write a solution to the Bounded-Buffer Producer/Consumer problem using semaphores. [16]

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R05**Set No. 3****IV B.Tech I Semester Examinations, November 2010****OPERATING SYSTEMS****Common to Bio-Medical Engineering, Electronics And Telematics,
Electronics And Communication Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
All Questions carry equal marks**

1. (a) Compare disk compaction with memory compaction. How are they same and how are they different?
(b) How do inodes work in UNIX file system? [8+8]
2. Explain the following Inter- processor Communication Mechanisms in UNIX for the Deadlocks.
(a) Semaphores
(b) Signals [16]
3. Explain segmentation scheme for memory management. Give the segmentation hardware. [16]
4. Consider the following set processes:

Process Name	Arrival Time	Processing Time
A	0	3
B	1	5
C	3	2
D	9	5
E	12	5

Develop a Gantt-chart to show the execution pattern using following policies:

- (a) FCFS
- (b) SPN
- (c) SRT
- (d) HRRN
- (e) RR(q=1)
- (f) RR(q=4)
- (g) Feedback(q=1)
- (h) Feedback(q=2ⁱ) [8×2]

5. Write a solution to the Bounded-Buffer Producer/Consumer problem using semaphores. [16]

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6. Explain about various Multithreading models. [16]
7. Explain about sequential interrupt processing with diagram. [16]
8. (a) Discuss about network worm programs.
(b) Explain statistical anomaly detection, rule-based detection approach to intrusion detection. [8+8]

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