

Code No: 07A40502

R07**Set No. 2**

II B.Tech II Semester Examinations, APRIL 2011
OPERATING SYSTEMS
Information Technology

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What are clustered systems?
 (b) Why clustered systems result in increase in availability.
 (c) How clustering is structured symmetrically or asymmetrically. [5+5+6]
2. (a) Write short notes on swap-space location.
 (b) Differentiate among the following disk scheduling algorithms.
 i. SCAN
 ii. C-SCAN
 iii. LOOK
 iv. C-LOOK. [6+10]
3. Discuss in detail various schemes for defining the logical structure of a directory. [16]
4. (a) What are the reasons for the parent to terminate the child process?
 (b) What is cascading termination?
 (c) What are the reasons for interprocess communication? [5+5+6]
5. What is cooperating process? What are the methods for processes to cooperate? [16]
6. (a) What hardware features are needed in a computer system for efficient capability manipulation? Can these be used for memory protection?
 (b) Discuss in detail how two users communicate securely over an insecure channel. [8+8]
7. Explain the memory management technique that supports users view of memory. [16]
8. (a) What are the conditions for the deadlock to occur? How can a deadlock be prevented?
 (b) Differentiate between polling and interrupt initiated I/O? [10+6]

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R07**Set No. 4**

II B.Tech II Semester Examinations, APRIL 2011
OPERATING SYSTEMS
Information Technology

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

Answer any FIVE Questions
All Questions carry equal marks

1. (a) What hardware features are needed in a computer system for efficient capability manipulation? Can these be used for memory protection?
 (b) Discuss in detail how two users communicate securely over an insecure channel. [8+8]
2. Explain the memory management technique that supports users view of memory. [16]
3. Discuss in detail various schemes for defining the logical structure of a directory. [16]
4. What is cooperating process? What are the methods for processes to cooperate? [16]
5. (a) What are the reasons for the parent to terminate the child process?
 (b) What is cascading termination?
 (c) What are the reasons for interprocess communication? [5+5+6]
6. (a) What are clustered systems?
 (b) Why clustered systems result in increase in availability.
 (c) How clustering is structured symmetrically or asymmetrically. [5+5+6]
7. (a) Write short notes on swap-space location.
 (b) Differentiate among the following disk scheduling algorithms.
 i. SCAN
 ii. C-SCAN
 iii. LOOK
 iv. C-LOOK. [6+10]
8. (a) What are the conditions for the deadlock to occur? How can a deadlock be prevented?
 (b) Differentiate between polling and interrupt initiated I/O? [10+6]

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R07**Set No. 1**

II B.Tech II Semester Examinations, APRIL 2011
OPERATING SYSTEMS
Information Technology

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

Answer any FIVE Questions
All Questions carry equal marks

1. What is cooperating process? What are the methods for processes to cooperate? [16]
2. (a) What hardware features are needed in a computer system for efficient capability manipulation? Can these be used for memory protection?
 (b) Discuss in detail how two users communicate securely over an insecure channel. [8+8]
3. Explain the memory management technique that supports users view of memory. [16]
4. Discuss in detail various schemes for defining the logical structure of a directory. [16]
5. (a) What are the conditions for the deadlock to occur? How can a deadlock be prevented?
 (b) Differentiate between polling and interrupt initiated I/O? [10+6]
6. (a) What are the reasons for the parent to terminate the child process?
 (b) What is cascading termination?
 (c) What are the reasons for interprocess communication? [5+5+6]
7. (a) Write short notes on swap-space location.
 (b) Differentiate among the following disk scheduling algorithms.
 - i. SCAN
 - ii. C-SCAN
 - iii. LOOK
 - iv. C-LOOK. [6+10]
8. (a) What are clustered systems?
 (b) Why clustered systems result in increase in availability.
 (c) How clustering is structured symmetrically or asymmetrically. [5+5+6]

Code No: 07A40502

R07**Set No. 3**

II B.Tech II Semester Examinations, APRIL 2011
OPERATING SYSTEMS
Information Technology

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

Answer any FIVE Questions
All Questions carry equal marks

1. (a) Write short notes on swap-space location.
 (b) Differentiate among the following disk scheduling algorithms.
 i. SCAN
 ii. C-SCAN
 iii. LOOK
 iv. C-LOOK. [6+10]
2. (a) What are clustered systems?
 (b) Why clustered systems result in increase in availability.
 (c) How clustering is structured symmetrically or asymmetrically. [5+5+6]
3. (a) What are the reasons for the parent to terminate the child process?
 (b) What is cascading termination?
 (c) What are the reasons for interprocess communication? [5+5+6]
4. (a) What are the conditions for the deadlock to occur? How can a deadlock be prevented?
 (b) Differentiate between polling and interrupt initiated I/O? [10+6]
5. (a) What hardware features are needed in a computer system for efficient capability manipulation? Can these be used for memory protection?
 (b) Discuss in detail how two users communicate securely over an insecure channel. [8+8]
6. Discuss in detail various schemes for defining the logical structure of a directory. [16]
7. Explain the memory management technique that supports users view of memory. [16]
8. What is cooperating process? What are the methods for processes to cooperate? [16]
