

Code No: 58072

Set No. 1

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**IV B.Tech. II Sem., II Mid-Term Examinations, April-2014**

**OPERATING SYSTEMS**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

						A				
--	--	--	--	--	--	---	--	--	--	--

**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. Which is the necessary condition for deadlock [    ]  
A) Mutual exclusion    B) Hold and wait    C) No preemption & circular wait    D) All
2. To decide whether the request can be immediately granted in banker's algorithm, we check that [    ]  
A)  $Request_i < Available$     B)  $Request_i \leq Available$     C)  $Request_i \geq Available$     D)  $Request_i > Available$
3. Which of the following is the file operation [    ]  
A) Truncating a file    B) Writing a file    C) Repositioning within a file    D) All
4. Which is used to organize the files [    ]  
A) Directory structure    B) Disk structure    C) Both    D) None
5. Which method is based on a disk model of a file [    ]  
A) Sequential access    B) Direct access    C) Both    D) None
6. In UNIX system, the file pointer is known as [    ]  
A) File handle    B) File pointer    C) File descriptor    D) None
7. The time necessary for the desired sector to rotate to the disk head is [    ]  
A) Seek time    B) Rotational latency    C) Transfer time    D) All
8. Bit-interleaved parity is in [    ]  
A) RAID 1    B) RAID 2    C) RAID 3    D) RAID 4
9. Which violation involves unauthorized modification of data [    ]  
A) Breach of integrity    B) Theft of service    C) Denial of service    D) None
10. Which of the following is the self-replicating code and is designed to infect other programs [    ]  
A) Trojan horse    B) Worm    C) Virus    D) Trap door

**Cont.....2**

**II Fill in the Blanks:**

11. Only one process at a time can use the resource is \_\_\_\_\_.
12. \_\_\_\_\_ ensures that at least one of the necessary conditions can not hold.
13. A state is \_\_\_\_\_ if the system can allocate resources to each process in some order and still avoid a deadlock.
14. A \_\_\_\_\_ is a named collection of related information that is recorded on secondary storage.
15. \_\_\_\_\_ must be mounted before it can be available to processes on the system.
16. SSTF stands for \_\_\_\_\_.
17. \_\_\_\_\_ is a collection of electronics that can operate a port, a bus, or a device.
18. A \_\_\_\_\_ is a full-duplex connection between a device driver and a user-level process.
19. IDS stands for \_\_\_\_\_.
20. The row of the access matrix represents \_\_\_\_\_.

**-oOo-**

Code No: 58072

Set No. 2

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**IV B.Tech. II Sem., II Mid-Term Examinations, April-2014**

**OPERATING SYSTEMS**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

						A				
--	--	--	--	--	--	---	--	--	--	--

**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. Which is used to organize the files [     ]  
A) Directory structure      B) Disk structure      C) Both      D) None
2. Which method is based on a disk model of a file [     ]  
A) Sequential access      B) Direct access      C) Both      D) None
3. In UNIX system, the file pointer is known as [     ]  
A)File handle      B)File pointer      C)File descriptor      D) None
4. The time necessary for the desired sector to rotate to the disk head is [     ]  
A)Seek time      B) Rotational latency      C) Transfer time      D) All
5. Bit-interleaved parity is in [     ]  
A)RAID 1      B)RAID 2      C)RAID 3      D) RAID 4
6. Which violation involves unauthorized modification of data [     ]  
A)Breach of integrity      B)Theft of service      C) Denial of service      D) None
7. Which of the following is the self-replicating code and is designed to infect other programs [     ]  
A)Trojan horse      B) Worm      C) Virus      D)Trap door
8. Which is the necessary condition for deadlock [     ]  
A)Mutual exclusion      B)Hold and wait      C)No preemption& circular wait      D) All
9. To decide whether the request can be immediately granted in banker's algorithm, we check that [     ]  
A) $Request_i < Available$       B)  $Request_i \leq Available$       C)  $Request_i \geq Available$       D)  $Request_i > Available$
10. Which of the following is the file operation [     ]  
A)Truncating a file      B)Writing a file      C)Repositioning within a file      D)All

**Cont.....2**

**II Fill in the Blanks:**

11. A \_\_\_\_\_ is a named collection of related information that is recorded on secondary storage.
12. \_\_\_\_\_ must be mounted before it can be available to processes on the system.
13. SSTF stands for \_\_\_\_\_.
14. \_\_\_\_\_ is a collection of electronics that can operate a port, a bus, or a device.
15. A \_\_\_\_\_ is a full-duplex connection between a device driver and a user-level process.
16. IDS stands for \_\_\_\_\_.
17. The row of the access matrix represents \_\_\_\_\_.
18. Only one process at a time can use the resource is \_\_\_\_\_.
19. \_\_\_\_\_ ensures that at least one of the necessary conditions can not hold.
20. A state is \_\_\_\_\_ if the system can allocate resources to each process in some order and still avoid a deadlock.

**-oOo-**

Code No: 58072

Set No. 3

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**IV B.Tech. II Sem., II Mid-Term Examinations, April-2014**

**OPERATING SYSTEMS**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

						A				
--	--	--	--	--	--	---	--	--	--	--

**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. In UNIX system, the file pointer is known as [     ]  
A)File handle      B)File pointer      C)File descriptor      D) None
2. The time necessary for the desired sector to rotate to the disk head is [     ]  
A)Seek time      B) Rotational latency      C) Transfer time      D) All
3. Bit-interleaved parity is in [     ]  
A)RAID 1      B)RAID 2      C)RAID 3      D) RAID 4
4. Which violation involves unauthorized modification of data [     ]  
A)Breach of integrity      B)Theft of service      C) Denial of service      D) None
5. Which of the following is the self-replicating code and is designed to infect other programs [     ]  
A)Trojan horse      B) Worm      C) Virus      D)Trap door
6. Which is the necessary condition for deadlock [     ]  
A)Mutual exclusion      B)Hold and wait      C)No preemption& circular wait      D) All
7. To decide whether the request can be immediately granted in banker's algorithm, we check that [     ]  
A) $Request_i < Available$       B)  $Request_i \leq Available$       C) $Request_i \geq Available$       D) $Request_i > Available$
8. Which of the following is the file operation [     ]  
A)Truncating a file      B)Writing a file      C)Repositioning within a file      D)All
9. Which is used to organize the files [     ]  
A) Directory structure      B) Disk structure      C) Both      D) None
10. Which method is based on a disk model of a file [     ]  
A) Sequential access      B) Direct access      C) Both      D) None

**Cont.....2**

**II Fill in the Blanks:**

11. SSTF stands for\_\_\_\_\_.
12. \_\_\_\_\_ is a collection of electronics that can operate a port, a bus, or a device.
13. A \_\_\_\_\_ is a full-duplex connection between a device driver and a user-level process.
14. IDS stands for \_\_\_\_\_.
15. The row of the access matrix represents\_\_\_\_\_.
16. Only one process at a time can use the resource is \_\_\_\_\_.
17. \_\_\_\_\_ ensures that at least one of the necessary conditions can not hold.
18. A state is \_\_\_\_\_if the system can allocate resources to each process in some order and still avoid a deadlock.
19. A \_\_\_\_\_is a named collection of related information that is recorded on secondary storage.
20. \_\_\_\_\_ must be mounted before it can be available to processes on the system.

**-oOo-**

Code No: 58072

Set No. 4

**JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD**

**IV B.Tech. II Sem., II Mid-Term Examinations, April-2014**

**OPERATING SYSTEMS**

**Objective Exam**

Name: \_\_\_\_\_ Hall Ticket No.

						A				
--	--	--	--	--	--	---	--	--	--	--

**Answer All Questions. All Questions Carry Equal Marks. Time: 20 Min. Marks: 10.**

**I. Choose the correct alternative:**

1. Bit-interleaved parity is in [     ]  
A)RAID 1                      B)RAID 2                      C)RAID 3                      D) RAID 4
2. Which violation involves unauthorized modification of data [     ]  
A)Breach of integrity              B)Theft of service              C) Denial of service              D) None
3. Which of the following is the self-replicating code and is designed to infect other programs [     ]  
A)Trojan horse              B) Worm                      C) Virus                      D)Trap door
4. Which is the necessary condition for deadlock [     ]  
A)Mutual exclusion              B)Hold and wait              C)No preemption& circular wait              D) All
5. To decide whether the request can be immediately granted in banker's algorithm, we check that [     ]  
A)Request<sub>i</sub><Available              B) Request<sub>i</sub><= Available              C)Request<sub>i</sub>>= Available              D)Request<sub>i</sub>>Available
6. Which of the following is the file operation [     ]  
A)Truncating a file              B)Writing a file              C)Repositioning within a file              D)All
7. Which is used to organize the files [     ]  
A) Directory structure              B) Disk structure              C) Both                      D) None
8. Which method is based on a disk model of a file [     ]  
A) Sequential access              B) Direct access              C) Both                      D) None
9. In UNIX system, the file pointer is known as [     ]  
A)File handle                      B)File pointer                      C)File descriptor                      D) None
10. The time necessary for the desired sector to rotate to the disk head is [     ]  
A)Seek time                      B) Rotational latency                      C) Transfer time                      D) All

**Cont.....2**

**II Fill in the Blanks:**

11. A \_\_\_\_\_ is a full-duplex connection between a device driver and a user-level process.
12. IDS stands for \_\_\_\_\_.
13. The row of the access matrix represents\_\_\_\_\_.
14. Only one process at a time can use the resource is \_\_\_\_\_.
15. \_\_\_\_\_ ensures that at least one of the necessary conditions can not hold.
16. A state is \_\_\_\_\_if the system can allocate resources to each process in some order and still avoid a deadlock.
17. A \_\_\_\_\_is a named collection of related information that is recorded on secondary storage.
18. \_\_\_\_\_ must be mounted before it can be available to processes on the system.
19. SSTF stands for\_\_\_\_\_.
20. \_\_\_\_\_ is a collection of electronics that can operate a port, a bus, or a device.