Started on	Tuesday, 26 November 2019, 11:59 AM
State	Finished
Completed on	Tuesday, 26 November 2019, 12:45 PM
Time taken	45 mins 59 secs
Grade	**99.81** out of 100.00

Information

True and False questions

Question **1**

Correct

Mark 20.00 out of 20.00

The main benefit of Gang scheduling is to reduce the overhead when executing a set of related threads

Select one:

- True ✔
- False

Information

Simple Choice Questions

Question **2**

Correct

Mark 20.00 out of 20.00

Select the RAID level that does NOT include redundancy

Select one:

- a. RAID 3
- b. RAID 2
- c. RAID 6
- d. RAID 1
- e. RAID 0 ✔
- f. RAID 4

Information

Given the following process table:

Process	**A**	**B**	**C**	**D**
$T_{arrival}$	0	1	2	3
$T_{service}$	2	3	4	1

Complete the following tables:

Question **3**

Correct

Mark 11.00 out of 11.00

FCFS	A	B	C	D
T_{finish}	2 ✔	5 ✔	9 ✔	10 ✔
T_r	2 ✔	4 ✔	7 ✔	7 ✔
T_r/T_s	1 ✔	1.33 ✔	1.75 ✔	7 ✔

Question **4**

Correct

Mark 11.00 out of 11.00

SPN	A	B	C	D
T_{finish}	2 ✔	5 ✔	10 ✔	6 ✔
T_r	2 ✔	4 ✔	8 ✔	3 ✔
T_r/T_s	1 ✔	1.33 ✔	2 ✔	3 ✔

Question **5**

Correct

Mark 11.00 out of 11.00

HRRN	A	B	C	D
T_{finish}	2 ✔	5 ✔	10 ✔	6 ✔
T_r	2 ✔	4 ✔	8 ✔	3 ✔
T_r/T_s	1 ✔	1.33 ✔	2 ✔	3 ✔

Information

Execute the page replacement algorithms FIFO, LRU, and Clock for a system with 3 frames and the following string of page references:

Page references: 7,0,1,2,0,3,0,4,2,3,0,3,2

Question **6**

Partially correct

Mark 6.81 out of 7.00

FIFO

7	7	7	2	2	2	2	4	4	4	0	0	0
	0	0	0	0	3	3	3	2	2	2	2	2
		11	1	1	1	0	0	0	3	3	3	3
		✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Question **7**

Correct

Mark 7.00 out of 7.00

LRU

7	7	7	2	2	2	2	4	4	4	0	0	0
	0	0	0	0	0	0	0	0	3	3	3	3
		1	1	1	3	3	3	2	2	2	2	2

Question **8**

Correct

Mark 7.00 out of 7.00

Use 1 after the page number (without white space) to represent that the use bit is enabled and a 0 (without white space) to represent that the used bit is disabled.

Example: 70 represents page 7 with the use bit equal to zero

CLOCK

71	71	71	21	21	21	21	41	41	41	40	31	31
	01	01	00	01	00	01	00	21	21	20	20	21
		11	10	10	31	31	30	30	31	01	01	01

Information

Consider a 32-bit file system and a 4 K-byte block size with an inode format that has 12 blocks for direct access, 1 block for single indirect access, 1 block for double indirect access. Calculate the following parameters:

Question **9**

Correct

Mark 2.00 out of 2.00

Direct level capacity in K-byte

Answer: 48 ✔

Question **10**

Correct

Mark 2.00 out of 2.00

Number of blocks available of the first level of indirection (you cannot simplify your answer by using the information units K, M, and G):

Answer: 1024 ✔

Question **11**

Correct

Mark 2.00 out of 2.00

Number of blocks of the second level of indirection (you cannot simplify your answer by using the information units K, M, and G):

Answer: 1048576 ✔

◄ Programming Assignment 3

Jump to...