Information Flag question	SECTION 3. File systems (15 points)	
	Consider a 32-bit file system with 1024 blocks on the single indirect level, and an i-node format that has 12 blocks for direct access, 1 block for single indirect access 1 block for double indirect access. Determine the following parameters (do not enter the unit when writing your answer):	5,
Question 1 Correct Mark 5.00 out of 5.00 Flag question	Size of a block (in bytes): Answer: 4096 ✓	
Question 2 Correct Mark 5.00 out of 5.00	Number of blocks of the second level of indirection: Answer: 1048576 ✓	
Flag question	The correct answer is: 1048576	
Question 3 Correct Mark 5.00 out of 5.00 Flag question	Number of bytes for the direct level: Answer: 49152 ✓	
Information Flag question	SECTION 4. Page replacement algorithms (20 points) (All-or-nothing questions)	
Question 4 Correct Mark 6.00 out of 6.00 Flag question	Page references: 2,3,5,1,2,2,3,1,5 Algorithm: FIFO Number of Frames: 3	
	2 2 2 1 1 1 1 1 1 3 3 3 2 2 2 2 2 5 5 5 5 5 3 3	5 2 3
Question 5 Correct Mark 7.00 out of 7.00 Flag question	Page references: 2,3,5,1,2,2,3,1,5 Algorithm: LRU Number of Frames: 3	
	2 2 2 1 1 1 1 1 1 3 3 3 2 2 2 2 2 5 5 5 5 5 3 3	1 * 5 * 3 *
Question 6 Incorrect Mark 0.00 out of 7.00 Flag question	Page references: 5,4,3,2,1,1,2,3,4 Algorithm: CLOCK Number of Frames: 3 Use bit: 0 = off, 1 = on	
		1 \(\)
Information Flag question	SECTION 5. Fair-Share scheduling algorithm (10 points) (All-or-nothing question)	
Question 7 Incorrect Mark 0.00 out of 10.00 Remove flag	Given a system with two processes (A and B) that are members of Group 1 and Group 2 respectively, execute the Fair-Share scheduling algorithm and complete the following table.	
	Group 1 Time Process A Process B Priority Process Group CPU CPU CPU CPU	•
	Count Count Count Count 0 45 0 0 45 0 0 1	
	You can assume that: 1. The base priority is equal to 45. 2. The processor is interrupted 60 times per time instant (to number of counts of the process that is currently running will be increased). 3. The weight of Group 1 is equal to the weight of Group 2. 4. If the priority of the two processes is the same, you will use the lowest PID criterion (using lexicographical order).	ıg 2.
Information Flag question	SECTION 6. Uniprocessor scheduling algorithms (5 points each) (All-or-nothing questions)	
Question 8 Incorrect Mark 0.00 out of 5.00 Flag question	Execute FCFS for the following group of processes and complete the following table: Process A B C D E	
	T _{Arrival} 0 2 4 6 8 T _s 2 3 5 1 4 T _{Finish} T _R 4 4 <td></td>	
	If two processes or more processes arrive at the ready queue at the same time, you will use the lowest PID criterion (using lexicographical order).	
Question 9 Incorrect Mark 0.00 out of 5.00 Flag question	Execute RR (Q=3) for the following group of processes and complete the following table: Process A B C D T _{Arrival} 0 1 5 6	
	T _s 4 2 3 1 T _{Finish} T _R If two processes or more processes arrive at the ready queue at the same time, you will use the lowest PID criterion (using	t
Question 10 Incorrect	Execute SPN for the following group of processes and complete the following table:	
Mark 0.00 out of 5.00 Flag question	Process A B C D T _{Arrival} 0 1 5 6 T _s 4 2 3 1 T _{Finish} 4 2 3 1	
	If two or more processes in the ready queue have the shortest service time, you will use the lowest PID criterion (using lexicographical order).	
Question 11 Incorrect Mark 0.00 out of 5.00 Flag question	Execute SRT for the following group of processes and complete the following table: Process A B C D	
	T _{Arrival} 0 1 2 3 T _s 1 4 2 2 T _{Finish} T _R	
	 If the process arriving has the same remaining execution time as the process in the CPU, then the process that is using the CP will have the highest priority. If there is no process in the execution state and two or more processes have the shortest remaining time, then you will use the lowest PID criterion (using lexicographical order). 	PU
Question 12 Incorrect Mark 0.00 out of 5.00 Flag question	Execute HRRN for the following group of processes and complete the following table: Process A B C D	
	TArrival 0 1 2 3 Ts 1 4 2 2 TFinish TR TR	
	If two or more processes in the ready queue have the highest response rate, you will use the lowest PID criterion (using lexicographical order).	
Question 13 Complete Not graded Flag question	Provide a file (JPEG, PDF, etc.) showing your work (step by step) while executing the uniprocessor scheduling algoritms.	