

Course No: GTEC 3314
Course Title: Operating Systems
Date: 00/05/2018
No. of Questions: 4
Time: 1.5 hours
Using Calculator (No)

University of Palestine



Final Exam
Second Semester
2017/2018
Total Grade: 25

Instructor Name: Mr. Ahmed
AbuMsameh
Student No.: _____
Student Name: _____
College Name: _____
Section No.: _____
Using Dictionary (No)

First Question

(4/25)

Decide whether the following sentences are TRUE or FALSE :

- 1- Switching process from running to waiting state is preemptive. ()
- 2- There is no deadlock if graph contains no cycles.
exchanged between the cooperating processes. ()
- 3- RAID multiple disk drives provide reliability via redundancy. ()
- 4- MMU maps physical address dynamically to logical address. ()

Second Question

(2/25)

Define:

File Protection

Seek time

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Third Question

(9/25)

Talk about Files Access Methods

Illustrate SCAN algorithm

Compare between segmentation & Paging.

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Fourth Question

(10/25)

- 1) Using Preemptive SJF scheduling find:
Average waiting time.
Average Turnaround time

Process	Arrival Time	Burst Time
P ₁	0	8
P ₂	1	4
P ₃	2	9
P ₄	3	5

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2)

Consider a system with: 5 processes P_0 through P_4 ;

3 resource types:

A (10 instances), B (5 instances), and C (7 instances)

Snapshot at time T_0 :

	<u>Allocation</u>	<u>Max</u>	<u>Available</u>
	A B C	A B C	A B C
P_0	0 1 0	7 5 3	3 3 2
P_1	2 0 0	3 2 2	
P_2	3 0 2	9 0 2	
P_3	2 1 1	2 2 2	
P_4	0 0 2	4 3 3	

Use banker's algorithm Decide if it safe or not

Good Luck