CSE321: Operating Systems Quiz 1

Set A

Name:	-	ID:	Section:
Marks: 10			Time: 15 minutes

Question 1: [CO1] In a particular scenario, There are 7 processes in the ready queue for execution. All processes require almost full allocation of CPU during their execution. Explain logically what issue can arise here and what is the solution. [Marks: 2]

Solhi Long Mid term scheduler should choose wisely.

Question 2: [CO1] At a certain moment, you are using a browser. From the browser, you have opened 3 separate tabs consisting of outlook mail, youtube and google scholar. After looking at some articles in the google scholar you have closed the tab consisting of google scholar. Explain logically by relating with the scenario what type of process termination was done here. [Marks: 2]

-> lask assigned to the process has been finished. Therefore it was no longer related

	//	21	31
Question 3: [CO1] Show outputs of the given code. [Marks: 6]	Pr	Pz	13
<pre>int main(){ pid_t a,b; a=fork(); if (a<0){ printf("Fork failed\n"); } else if (a==0){ printf("Child started\n"); b=fork(); if(b<0){ printf("Fork failed\n"); } }</pre>	a=11/21	a=0 b=2/31	a=0 b=0
<pre>else if (b>0){ printf("Child started\n"); wait(NULL); printf("Grand Child finished\n"); printf("Child finished\n"); } else{ printf("Grand Child started\n"); }</pre>			
<pre>else{ printf("Parent started\n"); printf("Parent will be interrupted\n"); wait(NULL); printf("Child finished\n"); printf("Parent finished\n"); } printf("Terminating\n"); return 0;</pre>			
parent started			
parent will be interrupted parent will be interrupted child started child started		ent f	inished
Grand Child startled Ter mineting Grand child finished			V
child finished terminating child finished			

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		Set B	
Namas	f	ID:	Section:
Name: Marks: 10	•		Time: 15 minutes

Question 1: [CO1] In a particular scenario, There are 5 processes in the ready queue for execution. All processes require almost full allocation of IO resources during their execution. Explain logically what issue can arise here and what is the solution. [Marks: 2]

Soln:

Long/Mid term schedaler should choose wirsely.

Question 2: [CO1] At a certain moment, you are using a browser. From the browser, you have opened 3 separate tabs consisting of outlook mail, youtube and a third party online IDE. After deriving some instructions in the tab consisting of the IDE when you tried to compile those the IDE required a huge space from the main memory. As a result, the browser forcefully killed that tab. Explain logically by relating with the scenario what type of process termination was done here. [Marks: 2]

memory.

