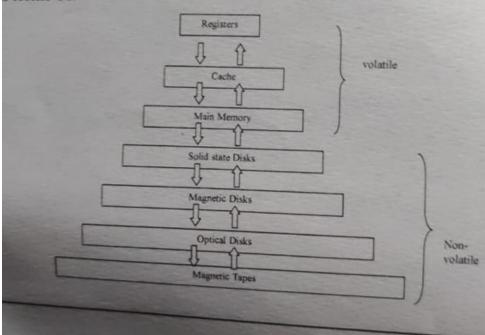


AGE STRUCTURE

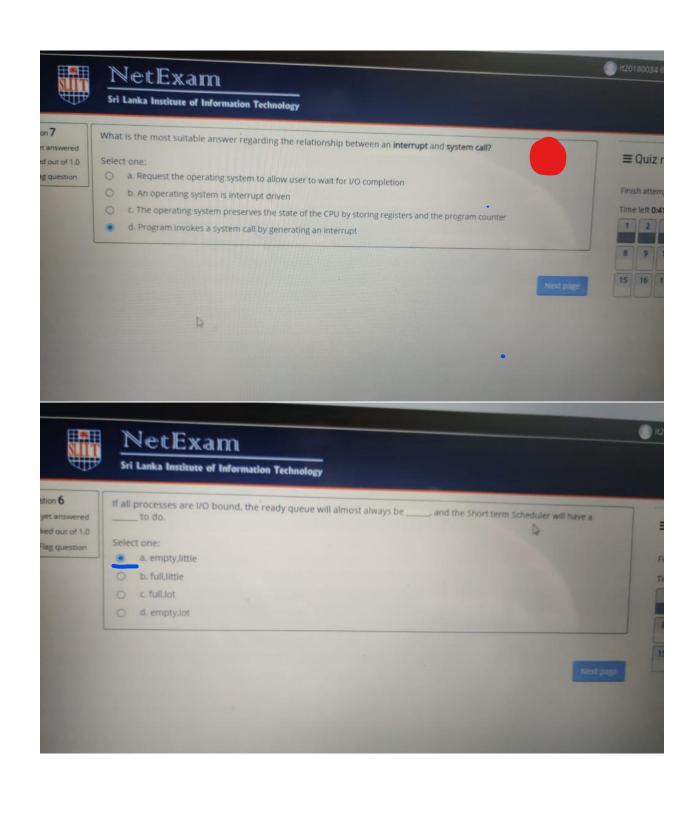
ms are organized terms of:

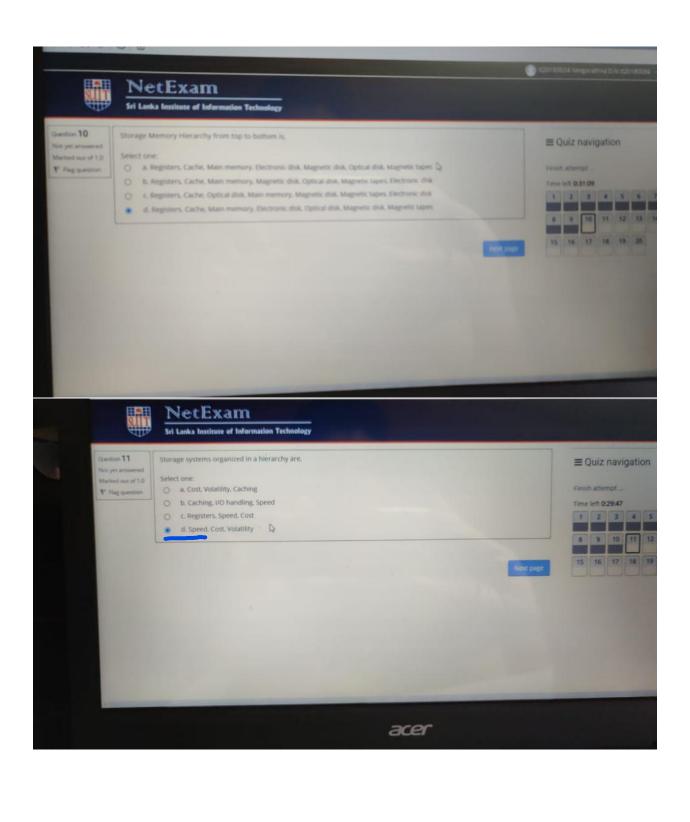


MANCE OF VARIOUS LEVELS OF STORAGE

1	2	3	T.	
registers	cache < 16MB	main memory < 64GB	TOTAL STATES PAINT	s magnetic disk
< 1 KB				

Sri Lanka Institute of Information Technology The most optimal scheduling algorithm is Select one: a. FCFS - First come First served O b. SJF - Shortest Job First O c. RR - Round Robin O d. None of these NetExam Sri Lanka Institute of Information Technology For real time operating systems, interrupt latency should be Select one: a. minimal O b. dependent on the scheduling O c. maximum M d. zero







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12 nswered

```
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uestion
```

```
How many child processes are created from the following C code
#include <stdio.h>
int main()
         for(int i=0,i<10,i++){
                   fork();
                  printf("hello\n");
 Answer:
                    1023
```



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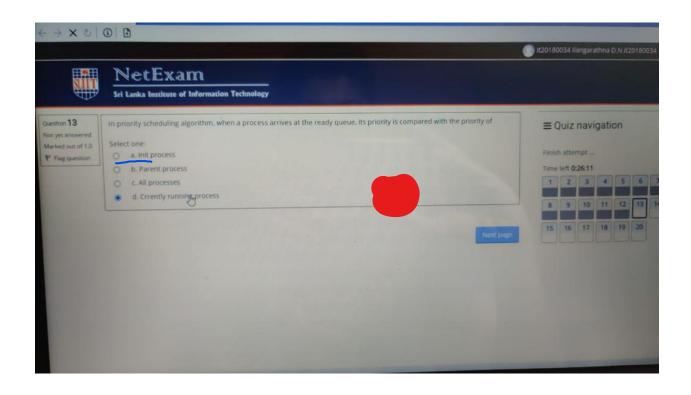
Question 9 Marked out of 1.0 P Flag question

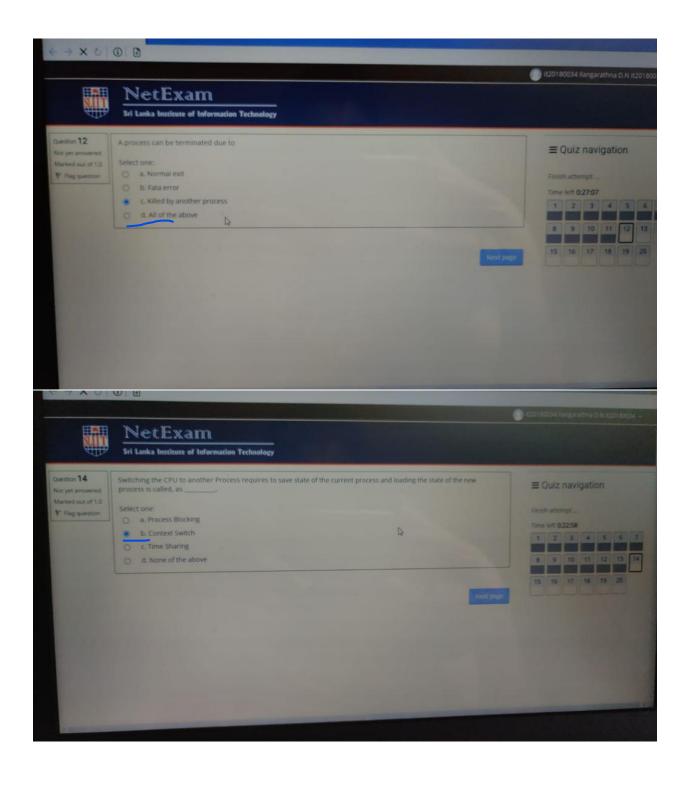
Out of the following, what is the most correct statement with reference to an Operating System?

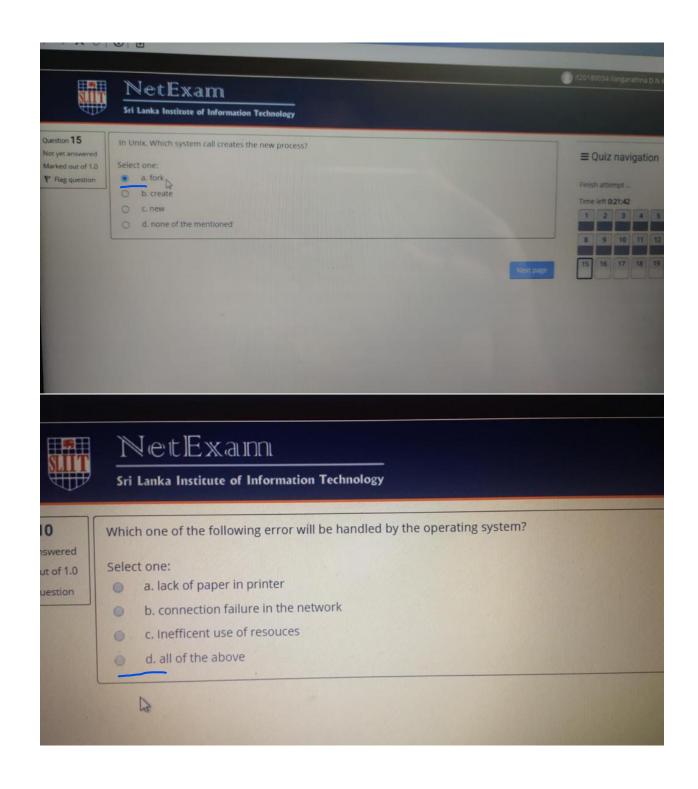
Select one:

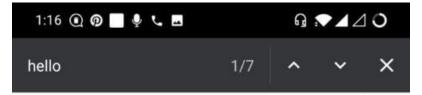
- a. Controls the execution of programs to prevent unauthorized access from third party
- O b. Defines standards and procedures to be used for the existing hardware
- C. Attention is highly paid to resource utilization rather than performance
- d. Manages all the resources for an efficient and fair resource usage
- e. Provides a better graphical user interface for users

■ Quiz na









CSC374 Midterm Solutions

Correct answers are marked \(\sigma\) and solution remarks are included.

1. How many Hello's are printed. (Assume fork does not fail.)

```
int main() {
   int i;
   for(i = 0; 1 < 2; 1++) {
     fork();
     printf("Hello\n");
   }
   return 0;</pre>
```

- 1.2
- 2.4
- 3.6 /
- 4.8

Solution Remarks: This code is equivalent t

```
fork();
printf("Hello\n");
fork();
printf("Hello\n");
```

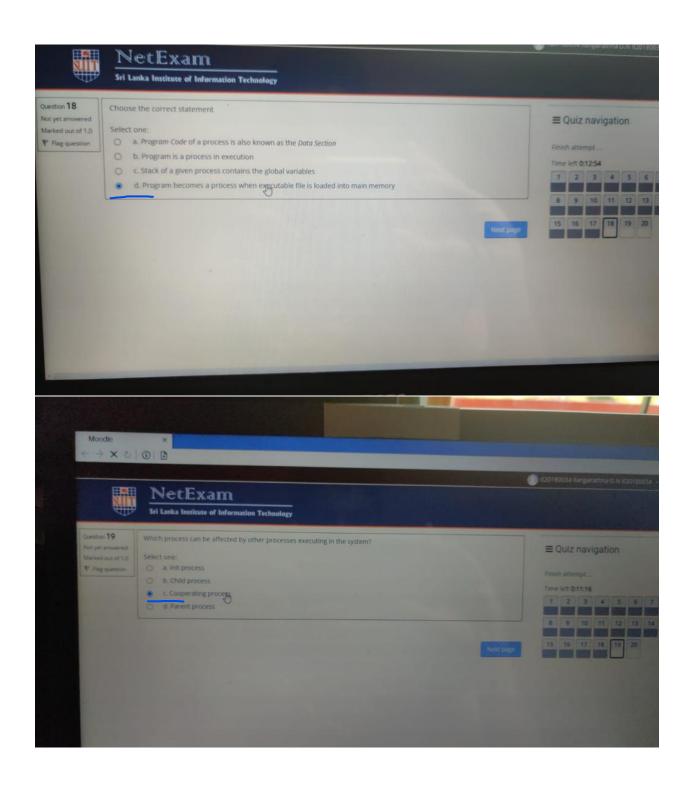
Now draw the diagram (where H is for the print statement):

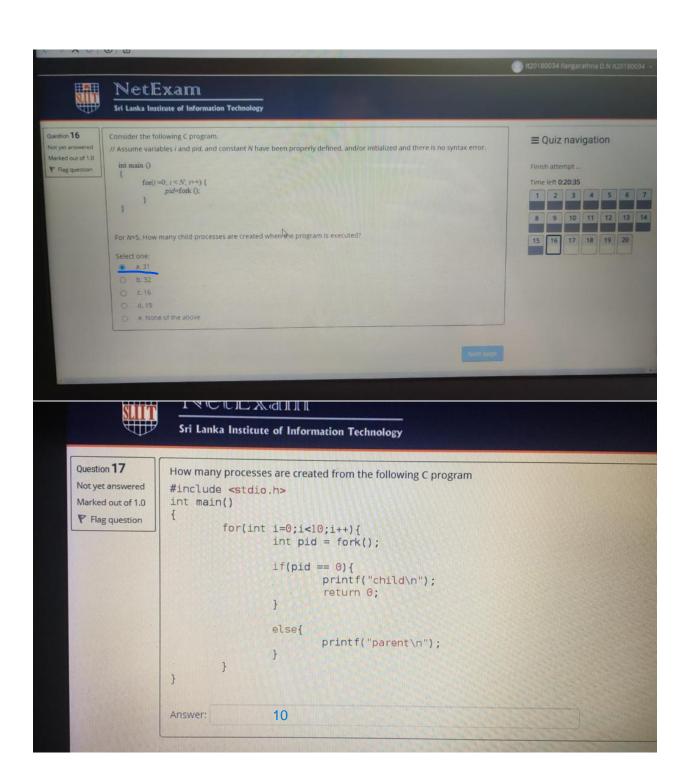
Mark ALL the following statements either Y correct and N if not. ASSUME all functions calls succeed unless otherwise noted.

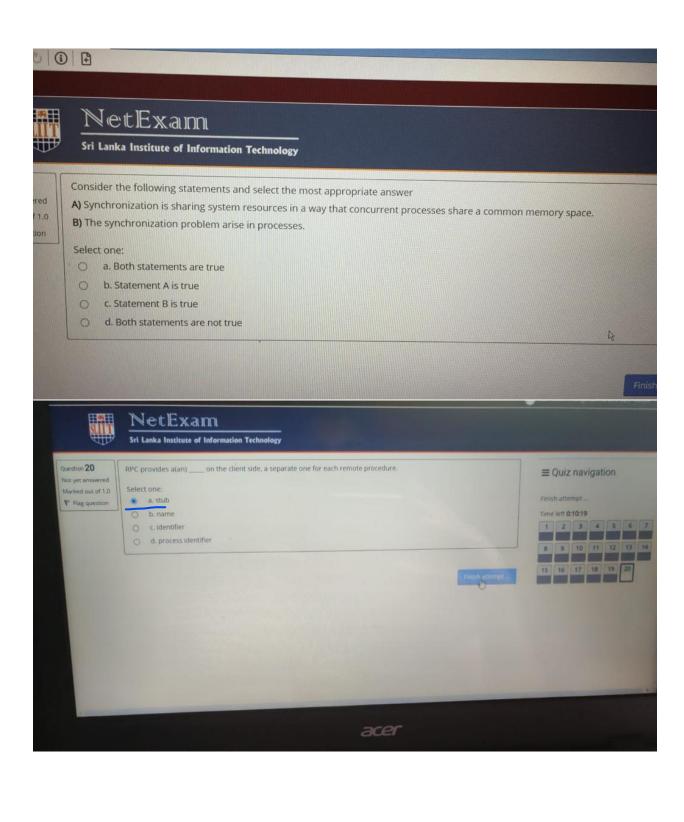
- 1. Y The function execvp is called once, but doesn't return.
- The function fork is called once, but returns twice.
- 3. N The function longimp is called once, but returns one or more times.
- 4. N The function setjmp is called once, but doesn't return.
- 5. Y If the fork function fails, it returns once.

Solution Remarks:

 When longjmp is called, the call stack replaced by the call stack in the saved









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Question 19

Not yet answered Marked out of 1.0

P Flag question

A process can be terminated due to

Select one:

- a. Normal exit
- b. Fata error
- c. Killed by another process
- d. All of the above



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Question 20

Not yet answered Marked out of 1.0

▼ Flag question

The address of the next instruction to be executed by the current process is provided by the

B

Select one:

- a. pipe
- b. CPU registers
- o c. process stack
- o d. program counter

