Dashboard / Courses / Winter 2021-22 / BTech Semester 4 / CS206 / Topic 3 / Mid Sem Lab Exam Quiz		
Started on	Wednesday, 6 April 2022, 9:20 AM	
State	Finished	
Completed on	Wednesday, 6 April 2022, 9:40 AM	
Time taken	19 mins 59 secs	
Marks	31.00/40.00	
Grade	11.63 out of 15.00 (78 %)	

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5/15/22, 11:33 AM
                                                                      Mid Sem Lab Exam Quiz: Attempt review
    Question 1
    Correct
    Mark 2.00 out of 2.00
      #include <stdio.h>
      #include <pthread.h>
      void *thread_fn(void *arg){
          long id =(long) arg;
           printf("Starting thread %ld\n", id);
           sleep(5);
           printf("Exiting thread %Id\n", id);
           return NULL;
      int main(){
           pthread_t t1,t2;
           pthread_create(&t1,NULL,thread_fn,(void *)1);
           pthread_create(&t2,NULL,thread_fn,(void *)2);
           pthread_join(t1,NULL);
           pthread_join(t2,NULL);
           printf("Exiting main\n");
           return 0;
       a. Starting thread 1
             Existing Thread 1
            Starting thread 2
            Existing main
             Existing Thread 2
       b. Starting thread 1
             Starting thread 2
             Existing Thread 1
             Existing Thread 2
             Existing main
       oc. Starting thread 2
            Starting thread 1
            Existing Thread 1
            Existing Thread 2
            Existing main
```

Od. Starting thread 1

Existing Thread 1 Starting thread 2 Existing Thread 2 Existing main

The correct ans Starting thread		
Starting thread		
Existing Thread		
Existing Thread		
Existing main		
Question 2		
Correct		
Mark 4.00 out of 4.00		
Match the follo	wing in the pthread_create functions.	
2nd argument		
	specify several properties of the thread (stack size, scheduling information)	~
1st argument		
ist argument	Thread id	✓
3rd argument	name of the function where the new thread will begin execution	~
4th argument	arg which is a pointer to the arguments to the start routine function	~
The correct ans	wer is:	
	→ specify several properties of the thread (stack size, scheduling information),	
1st argument -		
3rd argument – the start routine	• name of the function where the new thread will begin execution, 4th argument	→ arg which is a pointer to the arguments to
the start routine	Hunction	
Question 3 Correct		
Mark 1.00 out of 1.00		
mane not out or not		
fork() and exec(system is defined in unistd .h header file.	
The correct ans	wer is: unistd.h	



Match the follwing



The correct answer is:

getppid () → parent process id of the process,

getpid() → process id of the process,

exec() → replaces the current running process with a new process.,

wait() → holds for a child process from the current process to terminate.,

 $fork() \rightarrow creates \ child \ process$

Question 6
Correct
Mark 1.00 out of 1.00
Which statement is not correct regarding wait system call?
(1) stores the termination status of the terminated child (the value returned by main) into variable status,
(2) returns the process number of the terminated child process.
(3) defined in unistd.h
(4) waits for a child process of the current process to terminate.
a. (1), (2) and (4) only
O b. (2) and (4) only
O c. (1) , (3) and (4) only
O d. (1), (2) and (3) only
● e. (3) only ✓
The correct answer is: (3) only
Question 7
Correct
Mark 1.00 out of 1.00
pthread_join () defined in pthread library has same functionality as wait() function method.
Select one:
True ✓
○ False
The correct answer is 'True'.

```
Question 8
Correct
Mark 2.00 out of 2.00
```

```
#include <pthread.h>
#include <stdio.h>
#define NUM_THREADS 3
void *PrintHello(void *threadid)
    printf("\n%d: Hello World!\n", threadid);
     pthread_exit(NULL);
int main ()
    pthread_t threads [NUM_THREADS];
    int rc, t;
     for(t=0; t < NUM_THREADS; t++)
          printf ("Creating thread %d\n", t);
         rc = pthread_create (&threads[t], NULL, PrintHello, (void *) t );
         if (rc)
          {
               printf("ERROR; return code from pthread_create() is %d\n", rc);
              exit(-1);
     printf("Hello\n");
Which option is correct for this question.
 a. Creating thread 0
      Creating thread 1
      0: Hello World!
       1: Hello World!
      Hello!
      Creating thread 2
      2: Hello World!
 b. Creating thread 0
       Creating thread 1
       Creating thread 2
       0: Hello World!
       1: Hello World!
       Hello!
       2: Hello World!
```

C. Creating thread 0	
Creating thread 1	
Hello!	
0: Hello World!	
1: Hello World!	
Creating thread 2	
2: Hello World!	
Od. Creating thread 0	
0: Hello World!	
Creating thread 1	
1: Hello World!	
Creating thread 2	
2: Hello World!	
Hello!	
e. All of the option	~
○ f. Creating thread 0	
Creating thread 1	
Creating thread 2	
0: Hello World!	
Hello!	
1: Hello World!	
The correct answer is: All of the option	
Question 9	
Correct	
Mark 1.00 out of 1.00	
The header file needs to be used for pthread programming is "pthreads.h".	
Select one:	
○ True	
False ✓	
The correct answer is 'False'.	
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Question 10 Correct
Mark 1.00 out of 1.00
pthread_create (&threads_id, NULL, Hello_world, NULL); creates a thread and called Hello_world with all attributes set to NULL.
Select one:
True ✓
○ False
The correct answer is 'True'.
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Question 11 Correct
Mark 1.00 out of 1.00
Which command is not correct for compiling the "pthread program"?
○ 1. gcc -pthread filename.c
2. Every option is correct
3. gcc filename.c -o filename
 4. gcc -pthread filename.c -o filename
The correct answer is:
gcc filename.c -o filename

```
Question 12
Correct
Mark 2.00 out of 2.00
```

```
#include <stdio.h>
#include <pthread.h>
void *thread_fn(void *arg){
     long id =(long) arg;
     printf("Starting thread %ld\n", id);
     printf("Exiting thread %ld\n", id);
     return NULL;
int main(){
     pthread_t t1,t2;
     pthread_create(&t1,NULL,thread_fn,(void *)1);
     pthread_join(t1,NULL);
     pthread_create(&t2,NULL,thread_fn,(void *)2);
     pthread_join(t2,NULL);
     printf("Exiting main\n");
     return 0;
Multiple answers are correct.
 a. Starting thread1
      Starting thread 2
      Existing thread 2
      Existing thread 1
      Existing main
 ■ b. Starting thread1
       Starting thread 2
       Existing thread 1
       Existing thread 2
       Existing main
 C. Starting thread1
      Starting thread 2
      Existing main
      Existing thread 2
      Existing thread 1
```

d. Starting thread1

Existing thread 1

Starting thread 2

Existing thread 2
Existing main

The correct answer is:	
Starting thread1	
Existing thread 1	
Starting thread 2	
Existing thread 2	
Existing main	
Question 13	
Correct	
Mark 1.00 out of 1.00	
" $\%$ " is the default prompt of " C " Shell.	
Select one:	
True ✓	
○ False	
The correct answer is 'True'.	
The correct answer is True .	
Question 14	
Correct Mark 1.00 out of 1.00	
Wark 1.00 Out of 1.00	
"clean" command is used to clear terminal?	
Select one:	
True	
© False ✓	
- Tuisc -	
The correct answer is 'False'.	

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Question 15 Correct	
Mark 1.00 out of 1.00	
Among the arguments passed to "pthread_create" the final argumen	nt, is
(a) Attributes of the thread(b) Name of the thread	
(c) Data being passed to the thread (d) Thread id	
1. (c)	✓
O 2. (d)	
O 3. (b)	
○ 4. (a)	
The correct answer is: (c)	
Question 16	
Correct	
Mark 1.00 out of 1.00	
pthread_self returns	
a. The Thread id	✓
○ b. The Thread attributes	
o c. Thread running time	
O d. Thread data	
The correct answer is:	
The Thread id	

Question 17		
Correct		
Mark 1.00 out of 1.00		
Which command is used for removing non-emp	oty directories i	n Linux system?
a. rm "directory name"		
b. rm -r "directory name"		•
c. rm "directory name"		
C. IIII directory flame		
od. rmdir -r "directory name"		
-		
The correct answer is:		
rm -r "directory name"		
Question 18		
Incorrect		
Mark 0.00 out of 4.00		
Match the followings:		
-		
Used to change the present working directory.	1.12	
osed to change the present working directory.	mkdir	X
print working directory	ls	×
list out all the files in the directed folder.	pwd	×
Creates a new directory		.
creates a new anectory	cd	×
The correct answer is:		
Used to change the present working directory. → cd,		
print working directory → pwd,		
list out all the files in the directed folder. \rightarrow Is,		
Creates a new directory → mkdir		
creates a new directory - mixun		

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(Question 19
(Correct
١	Mark 1.00 out of 1.00
	Default prompt for Bourne Shell is
	○ a. %
	○ d. 70
	○ c.!
	○ d.#
	The correct answer is:
	\$

```
Question 20
Correct
Mark 1.00 out of 1.00
```

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
#include <sys/wait.h>
#include <stdlib.h>
int main()
     pid_t pid;
     pid=fork();
    int k;
    wait(NULL);
    if(pid=0)
         printf("child process id %d\n", getpid());
    }
     else {
          printf(" process id %d\n", getpid());
     return 0;
```

In the above code, will you able to print always the "CHILD ID FIRST THEN THE PARENT ID"?

Select one:

■ True

False

The correct answer is 'True'.

Question 21 Correct
Mark 1.00 out of 1.00
Which of the following functions can be used for synchronization between threads
 a. pthread_self
b. pthread_join
○ c. pthread_cancel
○ d. pthread_exit
The correct answer is: pthread_join
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Question 22
Incorrect
Mark 0.00 out of 2.00
<pre>#include <stdio.h> #include <sys types.h=""> #include <unistd.h> int doWork(){ fork(); fork(); printf("Hello world!\n"); printf("Hello world!\n"); printf("Hello world!\n");</unistd.h></sys></stdio.h></pre>
} int main() {
doWork();
printf("Hello world!\n"); exit(0);
}
How many times "Hello world!" will be printed?
Answer: 11
The correct answer is: 12

THE COTTECT GHOWET IS: 12

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Question 23
Incorrect
Mark 0.00 out of 2.00
```

```
#include <stdio.h>
#include <sys/types.h>
#include <unistd.h>
void forkexample()
     int x = 1, y = 2;
     if (fork() != 0) {
          wait(NULL);
          x=y;
          printf("Parent has x = %d\n", --x);
     }
     else{
          printf("Child has x = %d\n", --x);
          int y=x;
          printf("Child has y=%d\n", ++y);
int main()
     forkexample();
     return 0;
Which one is correct?
 \bigcirc 1. Child has x = 0
```

```
Child has y = 0

Child has y=1

Parent has x = 2

2. Parent has x = 1
```

Child has x = 0Child has y=1

3. Parent has x = 1

Child has x = 0Child has y=1

4. Child has x = 0Child has y=1Parent has x = 1

The correct answer is: Child has x = 0Child has y=1Parent has x = 1

Question 24	
Correct	
Mark 1.00 out of 1.00	
evec() system call is defined under "sys/types b" beader file	
exec() system call is defined under "sys/types.h" header file.	
Select one:	
○ True	
The correct answer is 'False'.	
Question 25	
Not answered	
Marked out of 1.00	
The data type used for storing the thread id is	
a. None	
b. pthread_id	
○ c. pthreads_t	
○ d. pthread_t	
o d. pullead_t	
The correct answer is:	
pthread_t	
Mid-Sem Exam	
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Class Quiz 1 ►