

Question 1 of 40

Which of the following is not the part of main thread libraries in use today?

Correct answer: **A.**

You chose: **A.**

This question displayed answers in random order during the test.

- ☒ **A. HPUX threads**
- ☐ **B. Java threads**
- ☐ **C. Win32 threads**
- ☐ **D. POSIX Pthreads**

Points: 1 / 1

Question 2 of 40

Secondary method is divided into equal size partition (fixed) called _____ and Main memory is divided into small fixed-sized blocks of (physical) memory called _____

Correct answer: **C.**

You chose: **A.**

This question displayed answers in random order during the test.

- ☒ **A. segments, frames**
- ☐ **B. pages, segments**
- ☒ **C. pages, frames**
- ☐ **D. frames, pages**

Question 3 of 40

What will be the output of the below code snippet:


```
public class Main{
    static int num1 = 100;
    static int num2 = 200;
    static{
        num1 += 1;
        num2 += 1;
    }
    public static void main(String args[]){
        num1 +=5;
        num2 +=10;
        System.out.println(num1 + num2);
    }
    static{
        num1 +=200;
        num1 +=300;
    }
}
```


Correct answer: **C.**

You chose: **B.**

This question displayed answers in random order during the test.

A. 15

 **B.** 517

 **C.** 817

D. 315

Question 4 of 40

What is the latest Long-Term Support(LTS) released for Java standard Endition (SE)?

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

A. Java 15

B. Java 16

✓ C. Java 17

D. Java 19

Points: 1 / 1

Question 5 of 40

What will be the output of the below code snippet?

```
public class Main{
    public static void main (String[] args){
        String s1="pgdac";
        String s2=new String("pgdac");
        String s3="pgdac";
        if(s1 == s2){
            System.out.println("s1 and s2 equal");

        }else{
            System.out.println("s1 and s2 not equal");
        }
        if(s1 == s3){
            System.out.println("s1 and s3 equal");
        }else{
            System.out.println("s1 and s3 not equal");
        }
    }
}
```

Correct answer: C.

You chose: C.

This question displayed answers in random order during the test.

- A. s1 and s2 not equal
s1 and s3 not equal
- B. s1 and s2 equal
s1 and s3 not equal
- ✓ C. s1 and s2 not equal
s1 and s3 equal
- D. s1 and s2 equal
s1 and s3 equal

Question 6 of 40

Which method can be defined only once in a program?

Correct answer: **A.**

You chose: **A.**

This question displayed answers in random order during the test.

✓ **A. main method**

B. private method

C. finalize method

D. static method

Points: 1 / 1

Question 7 of 40

Using Priority Scheduling Algorithm, find the average waiting time for the following set of processes given with their priorities in the order : Process: Burst Time:Priority respectively

P1: 10:3

P2: 1:1

P3: 2:4

P4: 1:5

P5: 5:2

Correct answer: A.

Selected answer: No answer given

→ A. 8.5 milliseconds

B. 3 milliseconds

C. 7.75 milliseconds

D. 8 milliseconds

Points: 0 / 1

Question 8 of 40

Which of the following is the right way to create a new object in java?

Correct answer: **A.**

You chose: **A.**

This question displayed answers in random order during the test.

✓ **A.** `ClassName object = new ClassName();`

B. `obj=classname();`

C. `Object.create();`

D. `classname.objectname();`

Points: 1 / 1

Question 9 of 40

Signal delivery in a process model takes place:

Correct answer: **C**.

You chose: **B**.

This question displayed answers in random order during the test.

- ☐ A. None of the above
- ☒ B. in the context of the process that received the signal
- ☐ C. in the context of the kernel
- ☐ D. in the context of the process that generated the signal

Points: 0 / 1

Question 10 of 40

Consider a reference string: 4,7,6,1,7,6,1,2,7,2
the number of frames in the memory is 3 and it uses First In First Out page replacement policy. Calculate hit and miss ratios respectively.

Correct answer: B.
You chose: D.

This question displayed answers in random order during the test.

- A. Hit Ratio=50%, Miss ration=50%
- B. Hit Ratio=40%, Miss Ratio=60%
- C. Hit Ratio=40%, Miss ration=40%
- ✗ D. Hit Ratio=60%, Miss ration=40%

Points: 0 / 1

Question 11 of 40

The output of script is:

Weekday 1 : Mon

Weekday 2 : Tue

Weekday 3 : Wed

Weekday 4 : Thur

Weekday 5 : Fri

Choose the correct script:

Correct answer: **B**.

You chose: **D**.

This question displayed answers in random order during the test.

A. `i=1`

```
for day in Mon Tue Wed Thu Fri
do
    echo "Weekday $((1+i)) : $day"
done
```

→ **B.** `i=1`

```
for day in Mon Tue Wed Thu Fri
do
    echo "Weekday $((i++)) : $day"
done
```

C. `i=0`

```
for day in Mon Tue Wed Thu Fri
do
    echo "Weekday $(i++) : $day"
done
```

✗ **D.** `i=1`

```
for day in Mon Tue Wed Thu Fri
do
    echo "Weekday $(i++) : $day"
done
```

Question 12 of 40

The section of code, which is accessed by the shared variable is known as _____.

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

☐ A. Mutex

☒ B. Critical Section

☐ C. Block V

☐ D. Semaphore

Points: 0 / 1

Question 13 of 40

echo \$(uname -r) is an example of _____.

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

☐ A. command substitution

☐ B. brace expansion

☐ C. arithmetic expansion

☒ D. parameter expansion

Points: 0 / 1

Question 14 of 40

Which one is the fastest form of Inter-process Communication(IPC)?

Correct answer: A.

You chose: C.

This question displayed answers in random order during the test.

→ A. Shared Memory

B. Signals

✗ C. Message Queues

D. Pipes

Points: 0 / 1

Question 15 of 40

As a part of paging technique, physical memory is broken into fixed blocked called as _____.

Correct answer: B.

You chose: C.

This question displayed answers in random order during the test.

A. Blocks

→ B. Frames

✗ C. Segments

D. Pages

Question 16 of 40

The command used to display long listing of file is:

Correct answer: A.

You chose: A.

This question displayed answers in random order during the test.

✓ **A.** ls -l

B. ls -r

C. ls -a

D. ls -t

Points: 1 / 1

Question 17 of 40

Which of the following for loop declaration is not valid?

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

A. for(int i=7;i<=77;i+=7)

B. for(int i=2;i<=20;i=2*i)

C. for(int i=20;i>=2;--i)

✓ **D.** for(int i=99;i>=0;i/9)

Question 18 of 40

Memory management technique in which Operating System stores and retrieves data from secondary storage for use in main memory is called _____

Correct answer: C.
You chose: A.

This question displayed answers in random order during the test.

✗ A. Fragmentation

B. Thrashing

→ C. Paging

D. Mapping

Points: 0 / 1

Question 19 of 40

Consider a single level paging scheme. The virtual address space is 4 MB and page size is 4KB. What could be the number of pages of process here?

Correct answer: B.
You chose: B.

This question displayed answers in random order during the test.

A. $(2^{10})-1$ pages

✓ B. 2^{10} pages

C. 2^{1000} pages

D. 2^{100} pages

Question 20 of 40

Which of the following should surround regular expression to ensure that they are processed properly?

Correct answer: C.
You chose: B.

This question displayed answers in random order during the test.

- A. Double quotation marks
- ☒ B. Parenthesis
- ☒ C. Single quotation marks
- D. Backslashes

Points: 0 / 1

Question 21 of 40

Which of these is not a bitwise operator??

Correct answer: A.
You chose: D.

This question displayed answers in random order during the test.

- ☒ A. <=' operator
- B. |= operator
- C. &= operator
- ☒ D. & operator

Question 22 of 40

What value is returned by the `fork()` system call on a successful creation of the child process to the child?

Correct answer: C.

You chose: B.

This question displayed answers in random order during the test.

A. 1

✗ B. PID of the parent process

→ C. 0

D. -1

Points: 0 / 1

Question 23 of 40

Which of the following signals cannot be blocked, ignored and caught?

Correct answer: D.

You chose: D.

This question displayed answers in random order during the test.

A. SIGINT SIGILL

B. SIGINT SIGSTOP

C. SIGINT SIGKILL

✓ D. SIGKILL SIGSTOP

Question 24 of 40

A graphical operating system- Windows NT, developed by Microsoft uses _____ type of kernel?

Correct answer: C.
You chose: A.

This question displayed answers in random order during the test.

- ☒ A. Micro
- ☐ B. Monolithic
- ☒ C. Hybrid
- ☐ D. Nano

Points: 0 / 1

Question 25 of 40

A _____ is a data structure maintained by the Operating System for every process and identified by an integer process ID(PID)

Correct answer: D.
You chose: A.

This question displayed answers in random order during the test.

- ☒ A. Process Register
- ☐ B. Process Pointer
- ☐ C. Program Counter
- ☒ D. Process Control Block

Question 26 of 40

Scheduling of threads by:

Correct answer: D.

You chose: B.

This question displayed answers in random order during the test.

A. Input

✗ B. Main Memory

C. Output

→ D. Operating System

Points: 0 / 1

Question 27 of 40

Logical extension of multiprogramming operating system is:

Correct answer: B.

You chose: A.

This question displayed answers in random order during the test.

✗ A. Multi-tasking

→ B. Time sharing and Multi-tasking

C. Single programing

D. Time sharing

Points: 0 / 1

Question 28 of 40

Kernel generate signals to

Correct answer: A.

You chose: C.

This question displayed answers in random order during the test.

→ A. notify processes of events

B. Kernel does not generate signals

✗ C. call user space

D. stop execution of ended process

Points: 0 / 1

Question 29 of 40

Which of the following represent legal flow control statements?

Correct answer: C.

You chose: B.

This question displayed answers in random order during the test.

A. `exit();`

✗ B. `continue(inner);`

→ C. `break;`

D. `break();`

Points: 0 / 1

Question 30 of 40

Another type of multiple-CPU system is the:

Correct answer: **A.**

You chose: **A.**

This question displayed answers in random order during the test.

✓ **A. Clustered System**

B. Mini Computer

C. Network Computer

D. Super Computer

Points: 1 / 1

Question 31 of 40

Which piece of code displays that the two functions are reentrant functions

Correct answer: C.

You chose: A.

This question displayed answers in random order during the test.

✗ A. None of the above

B.

```
int my_function(int x){
    return x*10;
}
int my_second_function(int x){
    return my_function(y)*20;
}
```

→ C.

```
int my_function(int x){
    return x*10;
}
int my_second_function(int x){
    return my_function(x)*20;
}
```

D.

```
int x;
int my_function(){
    return x*10;
}
int my_second_function(){
    return my_function()*20;
}
```

Points: 0 / 1

Question 32 of 40

Each process (in a process-model) has a:

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

A. Signal action activity

✓ B. All of the above

C. Single pending field

D. Signal mask field

Points: 1 / 1

Question 33 of 40

_____ involves storing the context or state of process so that it can be reloaded when required and execution can be resumed from the same point as earlier.

Correct answer: C.

You chose: D.

This question displayed answers in random order during the test.

A. Process Swapping

B. Process Switching

→ C. Context Switching

✗ D. Context Swapping

Question 34 of 40

Where is Swap Space located/exists?

Correct answer: A.
You chose: D.

This question displayed answers in random order during the test.

→ A. Secondary Memory

B. Primary Memory

C. Registers

✗ D. Virtual Memory

Points: 0 / 1

Question 35 of 40

Which of the following variable need to be initialized before using it?

Correct answer: D.
You chose: B.

This question displayed answers in random order during the test.

A. Global

✗ B. Instance

C. Static

→ D. Local

Points: 0 / 1

Question 36 of 40

Which of the following environment variable contains the value of default shell prompt?

Correct answer: A.

You chose: D.

This question displayed answers in random order during the test.

- A. PS1
- B. \$HOME
- C. PS2
- ✗ D. SHELL

Points: 0 / 1

Question 37 of 40

Which is valid way to declare and initialize an array?

Correct answer: B.

You chose: B.

This question displayed answers in random order during the test.

- A. `int [] arr = (5,8,2);`
- ✓ B. `int arr [] = {4,3,7};`
- C. `int arr [][] = {4,9,7,0};`
- D. `int [] arr = {"1","2","3"}`

Points: 1 / 1

Question 38 of 40

Which of the following is used as a special cache to keep track of recently used page table entries?

Correct answer: **B.**

You chose: **A.**

This question displayed answers in random order during the test.

☒ **A.** Register

☒ **B.** Translation Lookaside Buffer(TLB)

☐ **C.** Stack

☐ **D.** Heap

Points: 0 / 1

Question 39 of 40

Which of these statements is incorrect?

Correct answer: **B.**

You chose: **B.**

This question displayed answers in random order during the test.

☐ **A.** main() method must be made public.

☒ **B.** Every class must contain a main() method

☐ **C.** There can be only one main() method in a program

☐ **D.** Applets does not require a main() method at all

Question 40 of 40

A dirty bit or modified bit is a bit that is associated with a block of computer memory and indicates whether or not the corresponding block of memory has been modified. When the dirty bit is switched _____, the page is modified and can be replaced in memory. if it is _____, no replacement is necessary since no updates have been made.

Correct answer: **A.**

You chose: **A.**

✓ **A. on,off**

B. off,on

C. off,off

D. None of the above.

Points: 1 / 1