
1) The following C program :

```
main()
{
    fork();
    fork();
    printf("yes");
}
```

prints yes

A. only once

B. twice

C. four times

D. eight times

2) The following C program:

```
main()
{
    if (fork() || fork())
        printf ("hello\n");
}
```

prints "hello":

A. only once

B. twice (

C. three times

D. four times

3) A system is a multi-programming system because:

A. There are multiple devices connected to the system

B. There are multiple persons who have an account on that system

C. There are multiple memory resident ready-to-run programs in the

D. None of the given options

4) Which of the following is false about Microkernel approach?

A. secure kernel

B. more reliable

C. kernel size is less

D. more efficient for application programs

5) A Process Control Block (PCB) does not contain which of the following

- A. Program Counter
- B. Process State
- C. I/O status information
- D. Bootstrap program

6) A process can be terminated due to

- A. Normal exit
- B. Fatal error
- C. Killed by another process
- D. All of the mentioned

7) Logical extension of multiprogramming concept is

- A. single programming
- B. time sharing
- C. multi-tasking
- D. both time sharing and multi-tasking

8) What is the ready state of a process?

- A. When a process is scheduled to run after some execution
- B. When process is unable to run until some task has been completed
- C. When process is using the CPU
- D. None of the mentioned

9) Which concept best explains the working of an operating system?

- A. It is event driven or interrupt driven
- B. It is object oriented
- C. It is procedure based system software

D. It is a collection of procedures that interact with each other

10) Which of the following is the fastest memory?

A. Registers

B. Cache

C. Magnetic disk

D. Magnetic Tape

11) When a process is forked the child process inherits some properties. Which of the following properties is not inherited?

A. The process id

B. The process code

C. All the defined program variables

D. The stack

12) After executing the following code, consider you press ctrl-z.

```
main()
{
    if (fork())
        pause();
}
```

Which processes will be there in the system?

A. An orphan process

B. A zombie process

C. A process that cannot be terminated

D. Parent and its corresponding zombie process

13) The following C program:

```
main()
{
    if (fork() && fork())
        printf ("hello\n");
}
```

prints "hello":

A. once only

B. twice

C. three times

D. four times

14) The PID of init process is:

- A. 0
- B. 1**
- C. 2
- D. undefined

15) Which of the following is true about layered approach to system design?

- A. Easier to debug
- B. Higher layers depends on lower layers for their functionality
- C. Harder to decide which component to place at which layer
- D. All the given options**