


### Assignment 3

- **Question 1**

1 out of 1 points

The \_\_\_\_ of a process contains temporary data such as function parameters, return addresses, and local variables.

Correct Answer:   
stack

- **Question 2**

1 out of 1 points


A process control block \_\_\_\_.

Correct Answer:   
includes information on the process's state

- **Question 3**

1 out of 1 points


The list of processes waiting for a particular I/O device is called a(n) \_\_\_\_.

Correct Answer:   
device queue

- **Question 4**

1 out of 1 points


The \_\_\_\_\_ refers to the number of processes in memory.

Correct Answer:   
degree of multiprogramming

- **Question 5**

1 out of 1 points

When a child process is created, which of the following is a possibility in terms of the execution or address space of the child process?

Correct Answer:   
All of the above

- **Question 6**

1 out of 1 points

A \_\_\_\_\_ saves the state of the currently running process and restores the state of the next process to run.

Correct Answer:   
context switch

- **Question 7**

1 out of 1 points

A process may transition to the Ready state by which of the following actions?


Correct Answer: 

All of the above

- **Question 8**

1 out of 1 points

In a(n) \_\_\_\_ temporary queue, the sender must always block until the recipient receives the message.


Correct Answer: 

zero capacity

- **Question 9**

1 out of 1 points

A blocking `send()` and blocking `receive()` is known as a(n) \_\_\_\_\_.

Correct Answer: 

rendezvous

- **Question 10**

1 out of 1 points

When communicating with sockets, a client process initiates a request for a connection and is assigned a port by the host computer. Which of the following would be a valid port assignment for the host computer?


Correct Answer: 

1625

- **Question 11**

1 out of 1 points

Which of the following statements is true?


Correct Answer: 

Shared memory is typically faster than message passing.

- **Question 12**

1 out of 1 points

A process that has terminated, but whose parent has not yet called `wait()`, is known as a \_\_\_\_\_ process.


Correct Answer: 

zombie

- **Question 13**

1 out of 1 points

The \_\_\_\_\_ process is assigned as the parent to orphan processes.


Correct Answer: 

init

- **Question 14**

1 out of 1 points


The difference between a program and a process is that a program is an active entity while a process is a passive entity.

Correct Answer:  False

- **Question 15**

1 out of 1 points


The `exec()` system call creates a new process.

Correct Answer:  False

- **Question 16**

1 out of 1 points


For a single-processor system, there will never be more than one process in the Running state.

Correct Answer:  True

- **Question 17**

1 out of 1 points


Shared memory is a more appropriate IPC mechanism than message passing for distributed systems.

Correct Answer:  False

- **Question 18**

1 out of 1 points

A socket is identified by an IP address concatenated with a port number.

Correct Answer:  True