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OPERATING SYSTEMS DESIGN - A 2020-21 Odd Semester

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Correct

Mark 1.00 out of 1.00

All UNIX and LINUX systems have one thing in common which is

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Select one:

- ☐ a. set of commands
- ☒ b. set of system calls ✓
- ☐ c. set of instructions
- ☐ d. set of text editors

The correct answer is: set of system calls

Question **2**

Correct

Mark 1.00 out of 1.00

Choose the statement which is incorrect with respect to dynamic memory allocation.

Select one:

- ☐ a. Allocated memory can be changed during the run time of the program based on the requirement of the program
- ☐ b. Used for unpredictable memory requirements
- ☒ c. Execution of the program is faster than that of static memory allocation ✓
- ☐ d. Memory is allocated in a less structured area of memory, known as heap

The correct answer is: Execution of the program is faster than that of static memory allocation





Question **3**

Correct

Mark 1.00 out of 1.00

Core of Linux operating System is

Select one:

- ☒ a. Kernel ✓
- ☐ b. Terminal
- ☐ c. Command
- ☐ d. Shell

The correct answer is: Kernel

Question **4**

Correct

Mark 1.00 out of 1.00

In \_\_\_\_ mode, the kernel runs on behalf of the user.

Select one:

- ☐ a. user
- ☒ b. kernel ✓
- ☐ c. all
- ☐ d. real

The correct answer is: kernel

Question **5**

Correct

Mark 1.00 out of 1.00

Memory allocation using malloc() is done in?

Select one:

- ☒ a. Heap area ✓
- ☐ b. Static area
- ☐ c. Both b & c
- ☐ d. Stack area

The correct answer is: Heap area

Question **6**

Correct

Mark 1.00 out of 1.00

There are \_\_\_\_\_ signals that are generated from the keyboard.

Select one:

- ☒ a. 3 ✓
- ☐ b. 2
- ☐ c. 5
- ☐ d. 1

The correct answer is: 3

Question **7**

Correct

Mark 1.00 out of 1.00

We can use pipe with fork system call.

Select one:

- ☒ a. True ✓
- ☐ b. False

The correct answer is: True





Question **8**

Correct

Mark 1.00 out of 1.00

Which of the below factor consider the most in management of memory

Select one:

- ☒ a. All of the above ✓
- ☐ b. Efficient use of memory
- ☐ c. Speedy allocation of memory
- ☐ d. Speedy deallocation of memory

The correct answer is: All of the above

Question **9**

Correct

Mark 1.00 out of 1.00

Which of the following header files must necessarily be included to use dynamic memory allocation functions?

Select one:

- ☐ a. memory.h
- ☒ b. stdlib.h ✓
- ☐ c. stdio.h
- ☐ d. dos.h

The correct answer is: stdlib.h

Question **10**

Correct

Mark 1.00 out of 1.00

Which of the following signals are generated from the hardware?

Select one:

- ☐ a. SIGILL
- ☐ b. SIGSEGV
- ☐ c. SIGFPE
- ☒ d. SIGPE, SIGILL, SIGSEG ✓

The correct answer is: SIGPE, SIGILL, SIGSEG

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