

## CSPB 3753 - Fall 2024 - Knox - Operating Systems

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**Started on** Monday, 11 November 2024, 6:13 PM

**State** Finished

**Completed on** Monday, 11 November 2024, 6:16 PM

**Time taken** 3 mins 27 secs

**Grade** 10 out of 10 (100%)

Question **1**

Correct

Mark 1 out of 1

Which of the following finds the largest unallocated block to satisfy the request?

Select one:

- ☐ a. best-fit
- ☐ b. first-fit
- ☐ c. next-fit  
next-fit
- ☒ d. worst-fit



The correct answer is: worst-fit

Question **2**

Correct

Mark 1 out of 1

A page fault is when memory needed is not found in the registers and must be retrieved from memory.

Select one:

- ☐ True
- ☒ False ✓

The correct answer is 'False'.

Question **3**

Correct

Mark 1 out of 1

Translation look-aside buffer is used to reduce the number of direct memory references

Select one:

- ☒ True ✓
- ☐ False

The correct answer is 'True'.

Question **4**

Correct

Mark 1 out of 1

Which of the following provides slowest data access?

Select one:

- ☐ a. DRAM
- ☐ b. Registers
- ☐ c. SRAM
- ☒ d. Secondary Storage ✓

The correct answer is: Secondary Storage

Question **5**

Correct

Mark 1 out of 1

Which of the following are examples of volatile storage?

Select one or more:

- ☐ a. Flash
- ☐ b. Disk
- ☒ c. Main Memory ✓
- ☒ d. Registers ✓

The correct answers are: Main Memory, Registers

Question **6**

Correct

Mark 1 out of 1

There is enough memory for a process P1 to be loaded. However, we do not need all the space allocated for P1. What kind of fragmentation is this?

Select one:

- ☒ a. Internal fragmentation ✓
- ☐ b. External fragmentation
- ☐ c. Segmentation
- ☐ d. Obfuscation

The correct answer is: Internal fragmentation

## Question 7

Correct

Mark 1 out of 1

There is enough memory for a process P1. However, we cannot allocate space for P1 because we do not have free contiguous blocks of memory. What kind of fragmentation is this?

Select one:

- ☐ a. Internal fragmentation
- ☒ b. External fragmentation
- ☐ c. Segmentation
- ☐ d. None of the above



The correct answer is: External fragmentation

## Question 8

Correct

Mark 1 out of 1

What type of fragmentation does paging solve?

Select one:

- ☒ a. External
- ☐ b. Internal
- ☐ c. Both external and internal
- ☐ d. None



The correct answer is: External

Question 9

Correct

Mark 1 out of 1

Which of the following is NOT true about shared pages?

Select one:

- ☐ a. Shared code should be thread safe and reentrant
- ☐ b. A child process can point directly to the parent's code pages without the need for duplication
- ☐ c. Can share libraries between multiple processes
- ☒ d. Sharing pages improves memory access time



The correct answer is: Sharing pages improves memory access time

Question 10

Correct

Mark 1 out of 1

The use of inverted page tables is a solution to which problem?

Select one:

- ☐ a. Low RAM utilization
- ☐ b. Contiguous memory indexing
- ☐ c. Increased fragmentation
- ☒ d. Sparse page tables



The correct answer is: Sparse page tables