

[Dashboard](#) / [My courses](#) / [COSC3360SP2022](#) / [EXAM 3](#) / [Theory Part - Exam 3 \(30 points / 1 attempt / 45 minutes\)](#)

Started on Thursday, 12 May 2022, 5:00 PM

State Finished

Completed on Thursday, 12 May 2022, 5:15 PM

Time taken 15 mins 7 secs

Grade 30.00 out of 30.00 (100%)

Information

The theory part of this exam uses free navigation when presenting the questions.

Information

SECTION 1. True or False questions (2 points each)

Question 1

Correct

Mark 2.00 out of 2.00

A page is a fixed-length block of main memory.

Select one:

- ☐ True
- ☒ False ✓

Question 2

Correct

Mark 2.00 out of 2.00

The best-fit placement algorithm (dynamic partitioning), chooses the block that is closest in size to the request.

Select one:

- ☒ True ✓
- ☐ False

Question **3**

Correct

Mark 2.00 out of 2.00

Thrashing is a state in which the system spends most of its time swapping process pieces rather than executing instructions.

Select one:

- ☒ True ✓
- ☐ False

Question **4**

Correct

Mark 2.00 out of 2.00

The priority inversion problem occurs when a low priority task waits for a high priority task.

Select one:

- ☐ True
- ☒ False ✓

Question **5**

Correct

Mark 2.00 out of 2.00

C-SCAN (disk scheduling algorithm) restricts the scanning of the tasks to one direction only

Select one:

- ☒ True ✓
- ☐ False

Question **6**

Correct

Mark 2.00 out of 2.00

Device drivers communicate directly with the user of the computer system

Select one:

- ☐ True
- ☒ False ✓

SECTION 2. Simple choice questions (3 points each)

Question **7**

Correct

Mark 3.00 out of 3.00

A reference to a memory location independent of the current assignment of data to memory is:

Select one:

- ☐ a. Physical Address
- ☐ b. Independent Address
- ☐ c. Absolute Address
- ☒ d. Logical Address ✓

Question **8**

Correct

Mark 3.00 out of 3.00

Select the memory management technique which is visible to the programmer.

Select one:

- ☒ a. Segmentation ✓
- ☐ b. Paging
- ☐ c. Fixed partitioning
- ☐ d. None of the above

Question **9**

Correct

Mark 3.00 out of 3.00

The resident set management combination where the page to be replaced is chosen from all available frames in main memory is:

Select one:

- ☐ a. Fixed Allocation - Local Replacement
- ☒ b. Variable Allocation - Global Replacement ✓
- ☐ c. Fixed Allocation - Global Replacement
- ☐ d. Variable Allocation - Local Replacement

Question **10**

Correct

Mark 3.00 out of 3.00

Select the approach to thread scheduling that carries over most directly from a uniprocessor environment

Select one:

- ☐ a. Dedicated processor assignment
- ☐ b. Dynamic scheduling
- ☐ c. Gang scheduling
- ☒ d. Load sharing ✓

Question **11**

Correct

Mark 3.00 out of 3.00

Select the RAID level that requires $2 \times N$ disk (where N is the number of data disks).

Select one:

- ☐ a. 3
- ☐ b. 0
- ☒ c. 1 ✓
- ☐ d. 2

Question **12**

Correct

Mark 3.00 out of 3.00

Select the block-oriented device:

Select one:

- ☐ a. Printer
- ☒ b. Disk ✓
- ☐ c. Communications Port
- ☐ d. None of the above

[◀ Programming Question 1](#)

Jump to...

[Algorithms' Part \(70 points / 1 attempt / 120 minutes \(exam closes at 7 PM\)\) ▶](#)