

16 June 2022 at 2:24 AM

## Final CS 227 boys

1- list the requirements ( answer: mutual execution, progress, bounded )

2- give 2 examples of critical sections

3- list 3 benefits of multithreading

4- list 3 challenges of the programmer for handle the multiprocessors

5- describe the external and internal fragmentations

6- describe the logical, load and execution stages

7- نفس مثال السلايد للتحويل من لوجكال للفيزكال

الدرس .. يعطيك لوجكال ويقولك حوله

8- يعطيك

1, 300

2, 49

ويقولك حولها عن طريق ال register method ل الدرس

الحل : تشوف الجدول هل ال 300 اقل من الليميت حق

ال 1 وبعدها تضيف ال base مع ال 300

9- جديدة اغلبها من الفهم MCQs

10-

find the entries for the page table ..

find the bites for the logical memory

find the bites for the physical memory

**ANSWER ALL QUESTION (Form A-1)**

**Question #1 (0.5 each):** Select the most appropriate answer for the following statements:

- The sub-systems or components within a distributed system communicate with each other using a number of methods including:
  - Message passing.
  - Remote method invocation.
  - All of the above.
  - None of the above.
- Message topic publishers and subscribers in Publish-Subscribe Messaging (P&S) are not aware of each other.
  - True
  - False
- The interaction oriented software architecture decomposes the system into:
  - Data, control, and view presentation modules.
  - Data and view presentation modules.
  - Data and control modules.
  - None of the above.
- The producers, consumers, and service providers in buffered message-based software architecture are connected asynchronously by either a message queue or a message topic.
  - True
  - False
- The non-buffered event-based implicit invocation architecture breaks the software system into:
  - Event sources and event listeners.
  - Event sources, event listeners, and buffer.
  - Event sources, event listeners, and controller.
  - None of the above.

<u>5</u> MVC	<u>1</u> Java swing	Multi-tiers
<u>2</u> Message-Oriented Middleware	<u>4</u> .NET Web services	<u>2</u> CORBA

**Question #2 (0.5 each):** Fill in blanks, using the most appropriate above words, for the following statements:

- ( ) is an API framework available for non-buffered event-driven architecture.
- ( ) is a good implementation example of the broker architecture.
- ( ) is used in buffered message-based software architecture to provides a reliable message service on a distributed system.
- ( ) is a technology framework that supports distributed architectures.
- ( ) is suitable for interactive applications where multiple views are needed. single data model and the interfaces are prone to data changes frequently.