



# CS101

## MIDTERM

BY VU SPARKY



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UPDATE

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فائل کو پڑھنے سے پہلے اپڈیٹ والے  
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For high definition sound recording, data from each sample is recorded in \_\_\_\_\_ bits (\_\_\_\_\_ bits for Stereo).

a. 16,32 ✓<sup>HB</sup>

b. 32,64

c. 8,16

d. 64,128

\_\_\_\_\_ determines the number of bits to move radix point to either left or right.

a. Sign bit

b. Exponent field ✓<sup>HB</sup>

c. Mantissa field

d. Significant bit

The process involved in a \_\_\_\_\_ is like copying the data rather than moving it.

a. Jump instruction

b. Add instruction

c. Transfer instruction ✓<sup>HB</sup>

d. Shift instruction

On Social media, sometimes, a particular \_\_\_\_\_ is very popular.

a. Hash tag ✓<sup>HB</sup>

b. Symbol

c. Operator

d. Word

In hexadecimal notation, \_\_\_\_\_ bits represent as single symbol.

a. Four ✓<sup>HB</sup>

b. Three

c. Two

d. One

Search Engines can search \_\_\_\_\_ type of information.

a. Only document

b. Documents, Images, videos ✓<sup>HB</sup>

c. Only word files

d. Programs

One of the earlier computing devices was the:

a. Windowa

b. Laptop

c. Iphone

d. ABACUS ✓<sup>HB</sup>

The sum of seek time and rotation delay is called as \_\_\_\_\_.

a. Access time ✓<sup>HB</sup>

b. Transfer time

c. Rotational time

d. Delay time

Non-terminating expansions may also be a source of \_\_\_\_\_.

a. Truncation error ✓<sup>HB</sup>

b. Logical error

c. Overflow

d. Syntax error

One of the major uses of the \_\_\_\_\_ operation is to place zeros in one part of a bit pattern while not disturbing the other part.

a. AND ✓<sup>HB</sup>

b. NOR

c. XOR



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\_\_\_\_\_ stores bits as tiny electric charge that refreshes many times a second.

SDRAM

**DRAM**

RAM

Flip-Flop

Repeated erasing method in flash drive technology slowly \_\_\_\_\_ the silicon dioxide chambers.

**Damages**

Decrease

Enhance

Increase

Query is the set of words given to the search engine for

**Searching**

Manipulation

Extraction

Scrolling

Hexadecimal notation uses a \_\_\_\_\_ symbol to represent a pattern of four bits.

Quad

Triple

Double

**Single**

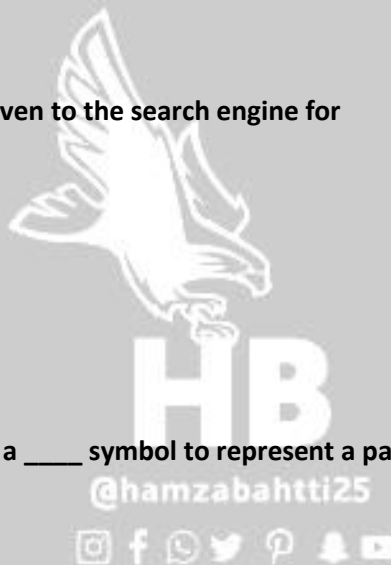
If we are interested to see the map of some location, we can use map operator in the following way:

Locations

**Map: Location**

Mph: map

Location: map



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In CS, we store and link data in an organized way using

SDLC

MSDB

DMBS

**DBMS**

In binary notation, we can represent \_\_\_\_\_ numbers if we have n bits.

**2 power (n)**

2 power (n+1)

2n

2(n-1)

Approximately how many entries a typical dictionary in a word processor can contain?

2,500 entries

25,000 entries

**More than 250,000 entries**

250,000 entries

\_\_\_\_\_ is a table used in GIF that can hold up to 256 distinct colors from RGB color space.

Block

**Palette**

Matrix

Record

\_\_\_\_\_ operator will give us only those web pages in which the searched term appears in the title of the web pages.

**Intitle**

Boolean operators

Upper case title

Stocks operator



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. If the network is a WiFi network, the link layer applies \_\_\_\_\_ during transmission.

CMSA/CA

CSMA/AA

**CSMA/CA**

CSCA/CA

A single algorithm can be represented in \_\_\_\_\_ way(s).

Malicious

**Many**

Single

Modern

A properly implemented flag used for mutual exclusion is referred to as a \_\_\_\_\_.

gatekeeper

blocker

watchdog

**semaphore**

Which digital communication platform serves as a contemporary substitute for the traditional postal mailing service?

**Electronic Mail (Email)**

Voice over Internet Protocol (VoIP)

Social Media Messaging

Instant Messaging Apps

Internet is a type of \_\_\_\_\_

Website

Application

**Network**

Computer

What connects the CPU and RAM to enable communication between them?

**BUS**



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Cables

Ports

Controller

If a right circular shift of 7 bits is applied to an 8-bit string, what is the corresponding number of bits for a left circular shift to produce the same effect?

5

1

4

8

What instruction does the CPU execute to "store" a bit pattern in the controller?

Store Instruction

Load Instruction

Jump Instruction

Receive Instruction

The internet software has \_\_\_\_\_ layers.

6

3

4

2

Who introduced the idea of storing a program in main memory?

John Von Neumann

Konrad zuse

J.Presper Eckert

John W.Mauchly



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1. Google Drive is an example of \_\_\_\_\_.
  - a. Cluster Computing
  - b. Grid and Cluster Computing
  - c. **Cloud Computing** ✓<sup>HB</sup>
  - d. Grid Computing
2. What do we call the capability of a controller to access main memory?
  - a. **Direct memory access DMA** ✓<sup>HB</sup>
  - b. Controller communication
  - c. Computer bus access
  - d. Memory Bus access
3. The person who gains highly privileged access to the operating system and can modify critical settings and software packages is known as the \_\_\_\_\_.
  - a. Technician
  - b. **Administrator** ✓<sup>HB</sup>
  - c. Employee
  - d. Moderator
4. How many bits should be left circularly shifted to achieve the same result as a right circular shift of 1 bits on an 8-bit string?
  - a. 8
  - b. 3
  - c. **7** ✓<sup>HB</sup>
  - d. 5

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5. The operating system switches the CPU to non-privileged mode \_\_\_\_\_.

- a. after a memory check.
- b. when shutting down
- c. during every process execution ✓<sup>HB</sup>
- d. at startup

6. TLD Stands for \_\_\_\_\_.

- a. Top Level Domain ✓<sup>HB</sup>
- b. Top low domain
- c. Top Lower Domain
- d. Top Loud Domain

7. What will be the sum of 01101010 and 11001100 if both the patterns represent values stored in two's complement notation?

- a. 01110110 in two's complement
- b. 00110000 in two's complement
- c. 00110111 in two's complement
- d. 00110110 in two's complement ✓<sup>HB</sup>

8. Which of the following is a significant asset to a computer's performance?

- a. Memory Bus
- b. Main Memory
- c. CPU ✓<sup>HB</sup>
- d. Direct Memory Access (DMA)

9. In the context of computer networks, WWW stands for \_\_\_\_\_.

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- a. World Wild West
  - b. Web World Wild
  - c. **World Wide Web** ✓<sup>HB</sup>
  - d. World Wide West
10. The state of the flag used in the flag system is represented as \_\_\_\_\_.
- a. available and unavailable
  - b. true and false
  - c. active and inactive
  - d. **set and clear** ✓<sup>HB</sup>
11. The CPU needs at least \_\_\_\_\_ to retrieve an instruction from memory.
- a. **One nanosecond** ✓<sup>HB</sup>
  - b. One billion second
  - c. Two nanoseconds
  - d. Three nanoseconds
12. Sniffing software is designed to record activities on a computer and report them to a potential \_\_\_\_\_.
- a. **Hacker** ✓<sup>HB</sup>
  - b. Auditor
  - c. Administrator
  - d. Super User
13. A company can develop \_\_\_\_\_ for which it chooses to maintain ownership rights.
- a. Network
  - b. Open system

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- c. Personal area network
  - d. **Proprietary systems** ✓<sup>HB</sup>
14. The dispatcher allocates \_\_\_\_\_.
- a. Memory space
  - b. **Time slices** ✓<sup>HB</sup>
  - c. Storage space
  - d. Mass storage space
15. Breaking the tasks into a number of subtasks compatible with the number of available processors is called \_\_\_\_\_.
- a. Scaling
  - b. Interactive Processing
  - c. **Load Balancing** ✓<sup>HB</sup>
  - d. Throughput
16. While performing the process, the \_\_\_\_\_ compares each memory reference to registers to ensure that the reference is within the designated limits.
- a. Process manager
  - b. Operating system
  - c. **CPU** ✓<sup>HB</sup>
  - d. Main Memory
17. What is the term for dynamically allocating tasks to processors to ensure efficient usage?
- a. Scaling
  - b. **Load balancing** ✓<sup>HB</sup>
  - c. Load sharing

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d. Multitasking

18. When an intruder gains access to a computer system, the next step usually involves \_\_\_\_\_.

- a. exploring for information ✓<sup>HB</sup>
- b. installing new software
- c. shutting down the system
- d. contacting the administrator

19. In non-privileged mode, CPUs have access to \_\_\_\_\_ instructions.

- a. privileged only
- b. all machine language
- c. limited acceptable ✓<sup>HB</sup>
- d. non-executable

20. The scenario where 'Process A' is using 'Resource 1' and waiting for 'Resource 2', while 'Process B' is using 'Resource 2' and waiting for 'Resource 1' exemplifies a \_\_\_\_\_.

- a. Deadlock. ✓<sup>HB</sup>
- b. Synchronization issue. 03147094561
- c. Race condition.
- d. Priority inversion.

21. The major responsibility of \_\_\_\_\_ software is protecting resources from unauthorized access

- a. Application
- b. Super user

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- c. Device Drivers
  - d. **Operating System** ✓<sup>HB</sup>
22. How does a bridge differ from a repeater in its functionality?
- a. A bridge passes all messages across the connection.
  - b. **A bridge forwards messages based on destination addresses.** ✓<sup>HB</sup>
  - c. A bridge does not forward messages.
  - d. A bridge can't connect two buses.
23. Releasing space in the \_\_\_\_\_ can break the deadlock and can allow the remaining processes to continue their tasks.
- a. Process list
  - b. Process pool
  - c. Process queue
  - d. **Process table** ✓<sup>HB</sup>
24. Which tool is used by users to visualize directories or files?
- a. Internet Explorer
  - b. User interface
  - c. **Window Explorer** ✓<sup>HB</sup>
  - d. Microsoft Explorer
25. An important task of an operating system is the allocation of \_\_\_\_\_ to the processes in the system.
- a. Time

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- b. **Resources** ✓<sup>HB</sup>
  - c. Mass storage.
  - d. Processes
26. What is the term for the concurrent execution of multiple jobs in a single-user system?
- a. Multiprogramming
  - b. Multischeduling
  - c. Multiprocessing
  - d. **Multitasking** ✓<sup>HB</sup>
27. A properly implemented flag used for mutual exclusion is referred to as a \_\_\_\_\_.
- a. **semaphore** ✓<sup>HB</sup>
  - b. watchdog
  - c. gatekeeper
  - d. blocker

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1. How does a proxy server shield the client from adverse actions of the server?

- a. By exposing the client's existence to the server
- b. By relaying messages back and forth between client and server
- c. By learning about the client's internal structure
- d. By blocking all incoming traffic

2. What is the primary purpose of the condition in the while structure?

- a. To control the execution of the activity.
- b. To repeat the activity indefinitely.
- c. To determine the activity to be performed.
- d. To skip the activity.

3. By attaching the \_\_\_\_\_ to a message, the sender can mark the message as authentic.

- a. Dual Signature
- b. Protocol
- c. Single Signature
- d. Security

4. Releasing space in the \_\_\_\_\_ can break the deadlock and can allow the remaining processes to continue their tasks.

- a. Process pool
- b. Process queue
- c. Process table
- d. Process list

5. If two processes demand the same resource simultaneously, it can lead to \_\_\_\_\_ in resource allocation.

- a. Resource contention
- b. Efficient utilization
- c. Process synchronization
- d. Improved performance

6. An interrupt converts the CPU to privileged mode and transfers control to \_\_\_\_\_ within the operating system.

- a. Dispatcher
- b. Interrupt handler
- c. Scheduler
- d. Memory manager

7. \_\_\_\_\_ is a technique of obtaining information explicitly by simply asking for it.

- a. Phishing
- b. Sniffing
- c. Worm
- d. Spyware

8. What will be the output of the following Pseudocode:?

Input  $m=9, n=6$

$m=m+1$

$N=n-1$

$m=m+n$

if ( $m>n$ )

print m

else

print n

- a. 15 @studywithhamza25
- b. 10
- c. 6
- d. 5

9. \_\_\_\_\_ is a situation where one process is waiting for the other process to release the allocated resource

- a. Killing
- b. Deadlock @studywithhamza25
- c. Spooling
- d. Conflict

10. What is the purpose of a firewall installed at the gateway of an organization's intranet?

- a. To block incoming messages from known trouble sources @studywithhamza25
- b. To act as an intermediary between client and server
- c. To establish contact through nonexistent servers
- d. To collect information about internal structure

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