



CS101

FINAL TERM

VU SPARKY



Version (1.1)



VU LMS HANDLING 

LMS SERVICES

ONLINE ASSIGNMENTS 

ONLINE QUIZ'S 

PROJECTS HANDLING 

LECTURES ATTENDANCE 

INTERNSHIP REPORTS 

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UPDATE

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سوال کو پڑھنے سے پہلے اپڈیٹ والے
لفظ پر کلک کر کے اپڈیٹ کر لے کچھ نئے
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1. What is the beginning of a list called?
 - a. **Head** ✓ *SPARKY*
 - b. Tail
 - c. Top
 - d. Base
2. To control access to information within a database, database systems often rely on _____ and _____.
 - a. records, tables
 - b. queries, reports
 - c. keys, indexes
 - d. **schemas, subschemas** ✓ *SPARKY*
3. In a queue, where are entries inserted?
 - a. At the top
 - b. **At the tail** ✓ *SPARKY*
 - c. At the base
 - d. At the head
4. Sequential files, like an employee records file, require a _____ format for representing information about each employee.
 - a. Complex and variable
 - b. Hierarchical
 - c. Disjointed

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d. Uniform ✓ *SPARKY*

5. The following statement extracts _____ from the EMPLOYEE relation.

MAIL <- PROJECT Name, Address from EMPLOYEE

a. Names and Addresses ✓ *SPARKY*

b. Phone numbers

c. Names only

d. Addresses only

6. Computer science has made hacking bank account:

a. Difficult

b. Possible

c. Challenging ✓ *SPARKY*

d. Impossible

7. In the case of _____ that are subject to heavy transaction loads, it is highly likely that a random snapshot will find the database in the middle of some transaction.

a. small database

b. web development

c. object oriented programming

d. large databases ✓ *SPARKY*

8. A _____ is a storage area that contains such an encoded address.

a. pointer ✓ *SPARKY*

b. array

c. tree

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- d. graph
9. A device that responds to stimuli from its environment:
- a. AI device
 - b. Agent** ✓ *SPARKY*
 - c. Computer
 - d. Router
10. AI is helping to make:
- a. Smartphones
 - b. DBMS** ✓ *SPARKY*
 - c. Online education
 - d. Robots
11. Each statement in natural language can have:
- a. One meaning
 - b. Multiple meaning** ✓ *SPARKY*
 - c. Same meaning
 - d. Unique meaning
12. Tuples that have attribute W in relation A less than attribute X in relation B are included in the result for the condition _____.
- a. $A.W > B.X$
 - b. $A.W \geq B.X$
 - c. $A.W = B.X$
 - d. $A.W < B.X$** ✓ *SPARKY*

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13. A typical database application involves two major layers: the application layer and the _____ management layer.
- a. schema
 - b. database** ✓ *SPARKY*
 - c. user
 - d. data
14. What does a tree structure's hierarchical organization resemble?
- a. Graph
 - b. Array
 - c. Stack
 - d. Organization chart** ✓ *SPARKY*
15. Turing test was purposed in:
- a. 1950** ✓ *SPARKY*
 - b. 1960
 - c. 1970
 - d. 1980
16. The amount of paper American use in a year is:
- a. 83 million tons
 - b. 95 million tons
 - c. 90 million tons
 - d. 85 million tons** ✓ *SPARKY*
17. In context of health, computer science have impacts:
- a. Positive

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- b. Both positive & negative ✓*SPARKY*
- c. Negative
- d. Dangerous
18. The PROJECT operation allows extraction of columns and places the result in a _____.
- a. New relation ✓*SPARKY*
- b. Matrix
- c. New row
- d. Existing column
19. In the context of maintaining employee records, an index is typically used for quick retrieval based on _____.
- a. employee identification numbers ✓*SPARKY*
- b. employee's date of birth
- c. employee's department
- d. employee's name
20. An array is a "_____" block of data whose entries are of the same type.
- a. triangle
- b. rectangular ✓*SPARKY*
- c. oval
- d. square
21. A patent can last:
- a. 40 years
- b. 30 years
- c. 50 years

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22. **d. 20 years** ✓*SPARKY*
23. Retailers maintain record of their costumers:
- a. Discounts
 - b. Purchases** ✓*SPARKY*
 - c. Returns
 - d. Belongings
24. The term _____ refers to a collection of data that is multidimensional in the sense that internal links between its entries make the information accessible from a variety of perspectives.
- a. data mining
 - b. database** ✓*SPARKY*
 - c. data structure
 - d. data science
25. Robots identifies veins by:
- a. Artificial intelligence
 - b. Testing
 - c. Image processing** ✓*SPARKY*
 - d. Touching veins
26. Retrieving a list of job titles in a specific department involves selecting tuples based on the _____ attribute.
- a. Relation
 - b. Employee ID
 - c. Job title
 - d. Department** ✓*SPARKY*

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For high definition sound recording, data from each sample is recorded in _____ bits (_____ bits for Stereo).

a. 16,32 ✓^{HB}

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 ✓^{HB}

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 ✓^{HB}

d. Shift instruction

On Social media, sometimes, a particular _____ is very popular.

a. Hash tag ✓^{HB}

b. Symbol

c. Operator

d. Word

In hexadecimal notation, _____ bits represent as single symbol.

a. Four ✓^{HB}

b. Three

c. Two

d. One

Search Engines can search _____ type of information.

a. Only document

b. Documents, Images, videos ✓^{HB}

c. Only word files

d. Programs

One of the earlier computing devices was the:

a. Windowa

b. Laptop

c. Iphone

d. ABACUS ✓^{HB}

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

a. Access time ✓^{HB}

b. Transfer time

c. Rotational time

d. Delay time

Non-terminating expansions may also be a source of _____.

a. Truncation error ✓^{HB}

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 ✓^{HB}

b. NOR

c. XOR



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Instagram, Facebook, WhatsApp, Twitter, Pinterest, Snapchat, YouTube icons

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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

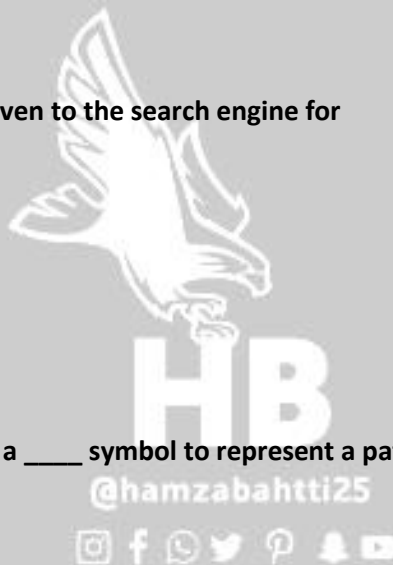
If we are interested to see the map of some location, we can use map operator in the following way:

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



HB

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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** ✓^{HB}
 - d. Grid Computing
2. What do we call the capability of a controller to access main memory?
 - a. **Direct memory access DMA** ✓^{HB}
 - 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** ✓^{HB}
 - 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** ✓^{HB}
 - 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 ✓^{HB}
 - d. at startup
6. TLD Stands for _____.
- a. Top Level Domain ✓^{HB}
 - 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 ✓^{HB}
8. Which of the following is a significant asset to a computer's performance?
- a. Memory Bus
 - b. Main Memory
 - c. CPU ✓^{HB}
 - 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 ✓^{HB}
 - 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 ✓^{HB}
11. The CPU needs at least _____ to retrieve an instruction from memory.
- a. One nanosecond ✓^{HB}
 - 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 ✓^{HB}
 - 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** ✓^{HB}
14. The dispatcher allocates _____.
- a. Memory space
 - b. **Time slices** ✓^{HB}
 - 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** ✓^{HB}
 - 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** ✓^{HB}
 - d. Main Memory
17. What is the term for dynamically allocating tasks to processors to ensure efficient usage?
- a. Scaling
 - b. **Load balancing** ✓^{HB}
 - 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 ✓^{HB}
- 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 ✓^{HB}
- 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. ✓^{HB}
- 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** ✓^{HB}
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.** ✓^{HB}
 - 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** ✓^{HB}
24. Which tool is used by users to visualize directories or files?
- a. Internet Explorer
 - b. User interface
 - c. **Window Explorer** ✓^{HB}
 - 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** ✓^{HB}
 - 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** ✓^{HB}
27. A properly implemented flag used for mutual exclusion is referred to as a _____.
- a. **semaphore** ✓^{HB}
 - 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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