

C1: UNIT 5: COMPUTER ESSENTIALS:

UNDERSTAND

1. Batch processing was mainly used in this generation.

- a) 1st
- b) 2nd
- c) 3rd
- d) 4th

Answer: a

2. Which cryptographic attack involves trying all possible keys until the correct one is found?

- a. Brute-force attack
- b. Man-in-the-middle attack
- c. Denial-of-service attack
- d. Spoofing attack

***Answer: * a**

3. ULSI stands for?

- a) Ultra Large-Scale Integration
- b) Under Lower Scale Integration
- c) Ultra Lower Scale Integration
- d) Under Large Scale Integration

Answer: a

4. A technique that marked the beginning of computer communications.

- a) Batch Environment
- b) Message passing
- c) User Environment
- d) Time Sharing

Answer: d

5. A type of technique in which dumb terminals are connected to a central computer system.

- a) Time Sharing
- b) Message passing
- c) Batch environment

d) User environment

Answer: a

6. TCP stands for?

a) Transmission control program

b) Transmission control protocol

c) Transfer control program

d) Transfer control protocol

Answer: b

7. The “Victorian internet” is actually?

a) Telegraph

b) Batch Environment

c) Unit Environment

d) System Environment

Answer: a

8. What is the purpose of a digital signature in cryptography?

a. Data encryption

b. Authentication

c. Key generation

d. Network scanning

***Answer: * b**

9. What covers a larger geographical area than MAN?

A.WAN

B.LAN

C.Both A and B

D. None of the above

Answer: WAN

10. Which type of network consists of both LANs and MANs?

A.Wide Area Network

B.Local Area Network

C.Both A and B

D. None of the above

Answer: Wide Area Network

11. The entire hostname has a maximum of _____

- a) 255 characters
- b) 127 characters
- c) 63 characters
- d) 31 characters

Answer: 255 characters

12. A DNS client is called _____

- a) DNS updater
- b) DNS resolver
- c) DNS handler
- d) none of the mentioned

Answer: DNS resolver

13. Which type of encryption uses the same key for both encryption and decryption?

- a. Asymmetric encryption
- b. Symmetric encryption
- c. Public-key encryption
- d. Private-key encryption

***Answer: b**

14. *Which type of encryption involves two distinct, mathematically related keys?*

- a) Symmetric key
- b) Asymmetric key
- c) Public key
- d) Private key

Answer: b

15. *In asymmetric key cryptography, which key is kept secret by the owner?*

- a) Public key
- b) Private key
- c) Shared key

d) Session key

Answer: b

16. The text that gets transformed using algorithm cipher is called?

- A. Complex text
- B. Transformed text
- C. Plain text
- D. Scalar text

Ans : C

17. Security features that control that can access resources in the OS.

- A. Authentication
- B. Identification
- C. Validation
- D. Access control

Ans : D

18. *What is a primary challenge of symmetric key cryptography in secure communication? *

- a) Limited security strength
- b) Key distribution
- c) Slow encryption speed
- d) Complexity of algorithms

Answer: b

19. *Which algorithm is commonly associated with asymmetric key cryptography? *

- a) AES
- b) DES
- c) RSA
- d) Blowfish

Answer: c

20. *What does a ransomware malware typically do? *

- A) Steals sensitive information
- B) Encrypts files and demands payment

C) Spreads rapidly through networks

D) Creates fake antivirus alerts

Answer: B

1. Network security consists of:

A. Protection

B. Detection

C. Reaction

D. All of the above

View Answer

Ans : D

2. Which of the following we should configure your systems and networks as correctly as possible?

A. Protection

B. Detection

C. Reaction

D. None of the above

Ans : A

3. Interaction between the client and server starts via the _____ message.

A. client_hi

B. client_hello

C. server_hello

D. server_hi

View Answer

Ans : B

4. *Which action is NOT typically associated with adware?*

A) Displaying unwanted advertisements

B) Redirecting browser searches

C) Collecting sensitive information

D) Slowing down computer performance

Answer: C

APPLY

5. In this generation Time sharing, Real time, Networks, Distributed Operating System was used.

- a) 1st
- b) 2nd
- c) 5th
- d) 4th

Answer: d

6. HLL stands for?

- a) High Level Language
- b) High Layman's Language
- c) High Level Lesson
- d) High Layman's Lesson

Answer: a

7. The period of _____ generation was 1952-1964.

- a) 1st
- b) 2nd
- c) 5th
- d) 4th

Answer: b

8. Packet switching was invented in?

- a) 1960s
- b) 1980s
- c) 2000s
- d) 1990s

Answer: a.

9. The probability of failure-free operation of a software application in a specified environment for a specified time.

- a) Software Reliability
- b) Software Quality
- c) Software availability
- d) Software Safety

Answer: a.

10. DARPA stands for?

- a) Data Advanced Research Projects Agency
- b) Defense Advanced Research Product Agency
- c) Data based Advanced Research Product Agency
- d) Defense Advanced Research Projects Agency

Answer: d

11. Arrange the Following Types of Networks according to their size, from largest to smallest?

- A.LAN, WAN, MAN
- B.WAN, LAN, MAN
- C.MAN, LAN, WAN
- D.WAN, MAN, LAN

Answer: WAN, MAN, LAN

12. *What is the purpose of a firewall in the context of cybersecurity?*

- A) To detect and remove malware
- B) To block unauthorized access to a network
- C) To encrypt files and folders
- D) To optimize internet speed

Answer: B

13. What does the acronym MAN stand for?

- A.Magnetic Access Network
- B.Metropolitan Area Network
- C.Multi-Area Network
- D.Multi-Access net

Answer: Metropolitan Area Network

14. In your school there is a library, and you can use the internet to do research, this library will most likely be a _____ network.

- A.MAN
- B.LAN
- C.WAN
- D.All of the above

Answer:WAN

15. Which network topologies has the highest transmission speed?

- A.LAN
- B.WAN
- C.MAN
- D.All of the above

Answer: LAN

16. IPv6 addresses have a size of:

- A.64 bits
- B.128 bits
- C.256 bits
- D.512 bits

Answer:128 bits

17. The domain name system is maintained by _____

- a) distributed database system
- b) a single server
- c) a single computer
- d) none of the mentioned

Answer: distributed database system

18. *Which programming language is commonly used to create malware due to its flexibility and wide usage? *

- A) Python
- B) Java
- C) Assembly
- D) COBOL

Answer: A

19. *In public-key cryptography, what is the purpose of the public key?*

- a) Encryption
- b) Decryption
- c) Digital signatures
- d) Key exchange

	<p>*Answer: a*</p> <p>20. *Which key type is used for verifying digital signatures in asymmetric cryptography? *</p> <ul style="list-style-type: none">a) public keyb) Private keyc) Symmetric keyd) Session key <p>*Answer: a*</p>
<p>ANALYZE</p>	<p>1.First Computer: Answer: ENIAC</p> <p>2. Inventor of WWW: Answer: Berners-Lee</p> <p>3. What is the primary processing unit in a computer? - Answer: CPU</p> <p>4. Which component stores temporary data for quick access? - Answer: RAM</p> <p>5. *Question:* What term is used to describe the first generation of computers? - *Answer:* Vacuum tubes.</p> <p>6. *Question:* Which component replaced vacuum tubes in second-generation computers? - *Answer:* Transistors.</p> <p>7. *What does HTML stand for?* - Answer: HyperText Markup Language</p> <p>8. *What is the process of converting plaintext into unreadable text called?* - Answer: Encryption</p> <p>9. *Q: What type of network connects devices within a limited geographical area? - A: LAN (Local Area Network)</p> <p>10. *Q: Which network provides communication over a large geographic area, often nationwide or worldwide? - A: WAN (Wide Area Network)</p> <p>11. *Question:* Who is often considered the "father of the World Wide Web"? - *Answer:* Tim Berners-Lee.</p> <p>12. *Question:* What does HTTP stand for in the context of web addresses?</p>

- ***Answer:* Hypertext Transfer Protocol.**

13. ***Question:*** What does ISP stand for?

***Answer:* Internet Service Provider.**

14. ***Question:*** Which technology enables high-speed internet access through cable connections?

***Answer:* Cable ISP.**

15. ***Question:*** What does DNS stand for?

***Answer:* Domain Name System.**

16. ***Question:*** What is the primary function of DNS?

***Answer:* Resolving domain names to IP addresses.**

17. ***Question:*** What is the term for the practice of using technology to collect and analyze large amounts of personal data without individuals' consent?

***Answer:* Data mining.**

18. ***Question:*** What type of encryption uses a single key for both encryption and decryption?

- ***Answer:* Symmetric**

19. ***Question:*** What is the primary goal of information assurance?

- ***Answer:* Security.**

20. ***Question:*** Which type of malware spreads by attaching itself to other executable files?

***Answer:* Virus**

1. Match the following

<u>List-1</u>	<u>List-II</u>
1.CPU	a. Random Access Memory
2.CU	b.Control Unit
3.MU	c. Memory Unit
4. ALU	d. Arithmetic Logic Unit
5.RAM	e. Central Processing Unit
Answer: 1-e 2- b 3-c 4-d 5-a	

EVALUATE

2. Match the following

<u>List-1</u>	<u>List-II</u>
First Generation	a. Transistors
Second Generation	b. Vacuum Tubes
Third Generation	c. Integrated Circuits
Fourth Generation	d. AI
Fifth Generation	e. VLSIC
Answer: 1-B 2-A 3-C 4-E 5-D	

3 Match the following

<u>List-1</u>	<u>List-II</u>
HTTP	a. Simple Mail Transfer Protocol
FTP	b. Transfer Control Protocol
IP	c. Internet Protocol
TCP	d. File Transfer Protocol
SMTP	e. Hyper Text Transfer Protocol
Answer: 1-e 2-b 3-c 4-b 5-a	

4. MATCH THE FOLLOWING DNS DOMAINS

List 1	List 2
1) .gov	A) Government agencies
2) .org	B) Network organizations
3) .edu	C) Non-profit organizations
4) .net	D) Educational organizations
5).mil	E) Military
Answer: 1-A, 2-D, 3-C, 4-B, 5-E	

EVALUATE

1. CPU is the brain of the computer or not

Answer: True

2. CU Controls data or not

Answer: True

3. RAM is a volatile memory

Answer: True

4. Mouse is input device

Answer: True

5. Printer is a input device

Answer: False

6.HTTP is a markup language

Answer: True

7.In full duplex, information can be transmitted in both directions

Answer: True

8. A DNS client is called DNS resolver

Answer: True

9. Wildcard domain names start with label \$

Answer: False

10. The domain name system is maintained by distributed database system

Answer: True

11. .mil domain is related to millitary

Answer: True

12. Network Security provides authentication and access control for resources.

Answer: True

13. Which of these is a part of network identification userid

Answer: True

14. The process of verifying the identity of a user Authentication

Answer: True

15. An algorithm in encryption is called CIPHER

Answer: True

16. The information that gets transformed in encryption is called cipher text

Answer: False

17. Cryptology can be subdivided into two branches.

Answer: True

18. Google Meet is a video conferencing service by Google.

True

19. AES does not constitute a cybercrime?

Answer: True

20. William Gibson coined the term "Cyberspace"?

Answer: True

1. In 1946, the ENIAC became the world's first fully electronic ____.

- **Answer: Computer**

2. Tim Berners-Lee's invention of the ____ in 1989 revolutionized information sharing and laid the foundation for the World Wide Web.

- **Answer: World Wide Web (WWW)**

3. Google was founded in ____, and its search engine quickly became the dominant force in online information retrieval.

- **Answer: 1998**

4. The development of ____, an open-source operating system, has played a crucial role in the growth of the software development community.

- **Answer: Linux**

5. ____ generation of computer started with using vacuum tubes as the basic components.

Answer: 1st generations computers

6. The set of rules that decide the functioning of a network is called ____

Answer: protocols

7. A LAN can be extended up to a distance of _____ km.

Answer: 1 or ONE

8. A _____ is a computer that provides services to other programs or computers.

Answer: Server

9. DNS stands for _____

Answer: Domain name server

10. UDP stands for _____

Answer: User datagram Protocol

CREATE

11. ISP stands for _____

Answer: Internet service Provider

12. .com domain is used for _____

Answer: Commercial

13. A network of networks is known as _____

Answer: Internet

14. The unique address of web page on the web is called _____

Answer: URL

15. TCP/IP stands for _____

Answer: Transmission Control Protocol / Internet Protocol.

16. FTP stands for _____

Answer: File Transfer Protocol

17. ____ is the process of communicating confidential information in an unreadable format between legitimate users?

Answer: Cryptography

18. Data Encryption Standard is an example of a _____ cryptosystem

Answer: Conventional

19. _____ is a computer program that replicates itself into other computer programs.

Answer: .Virus

20. _____ is a type of software designed to help the user's computer detect viruses and avoid them.

Answer: Anti virus