#### **ETI Question Bank PTT1**

#### Chapter 1

## 1. Which of these schools was not among the early leaders in AI research?

- A. Dartmouth University
- B. Harvard University
- C. Massachusetts Institute of Technology
- D. Stanford University
- E. None of the above

Ans: B

#### 2. The conference that launched the AI revolution in 1956 was held at

- A. Dartmouth
- B. Harvard
- C. New York
- D. Stanford
- E. None of the above

Ans: A

# 3. What is the term used for describing the judgmental or commonsense part of the problem

solving?

- A. Heuristic
- B. Critical
- C. Value-based
- D. Analytical
- E. None of the above

Ans: A

# 4. Which of the following is considered to be a pivotal event in the history of AI.

A. 1949, Donald O, The organization of Behavior.

B. 1950, Computing Machinery and Intelligence.

C. 1956, Dartmouth University Conference Organized by John McCarthy.

D. 1961, Computer and Computer Sense.

E. None of the above

Ans: C

### 5. The first AI programming language was called:

A. BASIC

B. FORTRAN

C. IPL

- D. LISP
- E. None of the above

Ans: D

## 6. What is Artificial intelligence?

- A. Putting your intelligence into Computer
- B. Programming with your own intelligence
- C. Making a Machine intelligent
- D. Putting more memory into Computer

Ans: C

#### 7. Who is the father of AI?

- A. Alain Colmerauer
- B. John McCarthy
- C. Nicklaus Wirth
- D. Seymour Papert

Ans: B

# 8. The characteristics of the computer system capable of thinking, reasoning and learning is

#### known is

- A. machine intelligence
- B. human intelligence
- C. artificial intelligence
- D. virtual intelligence

Ans: C

- 9. In \_\_\_\_\_ the goal is for the software to use what it has learned in one area to solve problems in other areas.
- A. Machine Learning
- B. Deep Learning
- C. Neural Networks
- D. None of these

Ans: B

- 10. Computer programs that mimic the way the human brain processes information is called as
- A. Machine Learning
- B. Deep Learning
- C. Neural Networks
- D. None of these

Ans: C

11do not guarantee optimal/any solutions
A. Heuristic
B. Critical
C. Value based
D. Analytical
Ans: A
12. Human to Machine is and Machine to Machine is
A. Process, Process
B. Process, Program
C. Program, Hardware
D. Program, Program
Ans: C
13. ELIZA created by
A. John McCarthy
B. Steve Russell
C. Alain Colmerauer
D. Joseph Weizenbaum
Ans: D
14.Apple Siri is a good example of AI.
A. Narrow AI
B. General AI
C. Neural AI
D. None of the above
Ans: A
15. Ability to think, puzzle, make judgments, plan, learn, communication by
its own is known as AI.
A. Narrow AI
B. General AI
C. Super AI
D. None of the above
Ans: C
16. Which AI system does not store memories or past experiences for future
actions.
A. Reactive machine
B. Limited memory
C. Theory of mind
D. None of the above
Ans: A
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17.Classifying email as spam, labeling webpages based on their content, voice
recognition are examples of
A. Supervised learning
B. Unsupervised learning
C. Machine learning
D. Deep learning
Ans: A
18. K-means, self-organizing maps, hierarchical clustering are the examples of
A. Supervised learning
B. Unsupervised learning
C. Machine learning
D. Deep learning
Ans: B
19. Machine learning invented by  A. John McCarthy B. Nicklaus Wirth C. Joseph Weizenbaum D. Arthur Samuel Ans: D
20. Strong AI is
A. The embodiment of human intellectual capabilities within a computer.
B. A set of computer programs that produce output that would be considered to
reflect
intelligence if it were generated by humans.
C. The study of mental faculties through the use of mental models
implemented on a computer
D. All of the above
E. None of the above
Ans: A

# Chapter 2

1. IIOT stands for
A. Information Internet of Things
B. Industrial Internet of Things
C. Innovative Internet of Things
D. None of the above
Ans:B
2. Name of the IoT device which is first recognized?
A. Smart Watch
B. ATM
C. Radio
D. Video Game
Ans: B
3 is a collection of wired Ethernet standards for the
link layer.
A. IEEE 802.3
B. IEEE 802.11
C. IEEE 802.16
D. IEEE 802.15.4
Ans: - A
4includes GSM and CDMA.
A. 2G
B. 3G
C. 4G
D. None of the above
Ans: A
5. 6LOWPAN stands for
A. 6 LOW Personal Area Network
B. IPv6 LOW Personal Area Network
C. IPv6 over Low power wireless personal area network
D. None of the above
Ans:C
6 protocol uses Universal Resource Identifiers (URIs) to
identify HTTP
resources.
A. HTTP
B. COAP

D. MQTT
Ans: A
7. MQTT stands for
A. MQ Telemetry Things
B. MQ Transport Telemetry
C. MQ Transport Things
D. MQ Telemetry Transport
Ans: D
8. CoAP is specialized in
A. Internet applications
B. Device applications
C. Wireless applications
D. Wired applications
Ans: A
9 is a bi-directional, fully duplex communication model that uses a
persistent connection between client and server.
A. Request-Response
B. Publish-Subscriber
C. Push-Pull
D. Exclusive Pair
Ans:D
10. REST is acronym for
A. Representational State Transfer
B. Represent State Transfer
C. Representational State Transmit
D. Representational Store Transfer
Ans: A
11 is one of the most popular wireless technologies used by WSNs.
A. Zigbee
B. AllSean
C. Tyrell
D. Z-Wave
Ans:A

C. WebSocket

12. Devices that transforms electrical signals into physical movements A. Sensors B. Actuators C. Switches D. Display Ans: B
13. Stepper motors are
A. AC motors
B. DC motors
C. Electromagnets
D. None of the above
Ans: B
14. DC motors convert electrical into energy.  A. Mechanical  B. Wind  C. Electric
D. None
Ans: A
<ul> <li>15. Which of the following is NOT a feature of 5G technology?</li> <li>A) Faster speeds compared to 4G</li> <li>B) Lower latency than previous generations</li> <li>C) Operation on lower radio frequencies</li> <li>D) Increased capacity for connecting more devices simultaneously</li> <li>Ans: C</li> </ul>
16. Which advanced technologies are employed by 5G to enhance data transmission?  A) GPS and Bluetooth B) NFC and RFID C) Massive MIMO and beamforming D) SONAR and LiDAR Ans: C
17. Which aspect of NGN architecture enables seamless integration with the

- 17. Which aspect of NGN architecture enables seamless integration with the internet and facilitates end-to-end communication across different networks?
- A) Packet Switching
- B) Multi-Service Support
- C) IP-Based Communication
- D) Quality of Service (QoS)

#### Ans: C

- 18. Which wireless technology primarily utilizes unlicensed spectrum?
- A) 4G LTE
- B) 5G
- C) Wi-Fi
- D) 3G

Answer: C) Wi-Fi

- 19. Which of the following statements about Next-Generation Network (NGN) Core is true?
- A) NGN Core primarily uses circuit-switched architecture.
- B) NGN Core supports only traditional voice calls.
- C) NGN Core is not adaptable to changing user demands.
- D) NGN Core is built on a packet-switched architecture.

Ans: D

- 20. Which MPLS feature enables network operators to optimize resources and improve performance by controlling the flow of traffic through the network?
- A) Label Distribution Protocol (LDP)
- B) Traffic Engineering
- C) Virtual Private Networks (VPNs)
- D) Quality of Service (QoS)

#### Chapter 3

### 1. What is blockchain technology?

- A) A physical chain of interconnected computers
- B) A digital database where information is stored in blocks linked together
- C) A type of cryptocurrency
- D) A decentralized network of banks and governments

Ans: B

#### 2. What makes a blockchain secure and immutable?

- A) Centralized control
- B) Third-party involvement
- C) Decentralization and immutability
- D) Dynamic block structure

Ans: C

# 3. What type of transactions can be recorded on a blockchain?

- A) Only financial transactions
- B) Only transactions involving government agencies
- C) Transactions of money, bitcoins, contracts, property, etc.
- D) Transactions involving physical goods only

Ans: C

### 4. How are transactions verified on a blockchain?

- A) By a single central authority
- B) By government agencies
- C) By a network of computers
- D) By third-party intermediaries

Ans: C

### 5. What is the primary purpose of using blockchain technology?

- A) To centralize transaction verification
- B) To eliminate the need for cryptographic processes
- C) To decentralize transaction verification
- D) To increase reliance on centralized authorities

Ans: C

## 6. How is security maintained in blockchain?

- A) Through centralized authorities
- B) By eliminating cryptographic processes
- C) Through cryptographic processes performed by peer-to-peer users
- D) By relying on third-party intermediaries

Ans: C

# 7. What process ensures the security of transactions in blockchain? A) Data encryption B) Data mining C) Data verification D) Data deletion Ans: B 8. In blockchain transactions, who verifies the validity of transactions? A) Centralized authorities B) Blockchain miners C) Third-party intermediaries D) Peer-to-peer users Ans: D 9. When was the concept of blockchain first introduced? A) 1990s B) 2000s C) 2010s D) 2020s Ans: A 10. Who is credited with the invention of blockchain technology? A) Satoshi Nakamoto B) Vitalik Buterin C) Hal Finney D) Nick Szabo Ans: A 11. Which whitepaper introduced the concept of blockchain and Bitcoin? A) Ethereum Whitepaper B) Ripple Whitepaper C) Bitcoin Whitepaper D) Hyperledger Whitepaper Ans: C 12. In what year was the Bitcoin network officially launched? A) 2005 B) 2009 C) 2012 D) 2017

# 13. What was the original purpose of blockchain technology, as described in the Bitcoin Whitepaper?

- A) Decentralized currency
- B) Secure data storage
- C) Peer-to-peer networking
- D) Digital identity management

Ans: A

# 14. Which cryptocurrency was the first to implement a blockchain other than Bitcoin?

- A) Ethereum
- B) Litecoin
- C) Ripple
- D) Dogecoin

Ansr: B

### 15. What is a key characteristic of a centralized system?

- A) Decentralized control
- B) Distributed decision-making
- C) Single point of control or authority
- D) Shared responsibility among nodes

Ans: C

### 16. In a decentralized system, decision-making power is:

- A) Centralized in one entity
- B) Distributed among multiple entities
- C) Controlled by a third-party intermediary
- D) Determined by government regulations

Ans: B

## 17. Which of the following best describes a centralized database?

- A) Data is stored across multiple nodes with equal authority
- B) Data is controlled by a single entity or authority
- C) Data is encrypted and distributed across a network
- D) Data is verified by consensus among network participants

Ans: B

## 18. Which type of system is more resistant to censorship and tampering?

- A) Centralized system
- B) Decentralized system
- C) Hybrid system
- D) None of the above

- 19. Which layer of the blockchain architecture represents the user interface and applications built on top of the blockchain?
- A) Application Layer
- B) Execution Layer
- C) Semantic Layer
- D) Propagation Layer

Ans: A

- 20. What is an example of a real-life application that belongs to the Application Layer of the blockchain architecture?
- A) Bitcoin mining
- B) Ethereum-based decentralized finance (DeFi) applications
- C) Smart contract execution
- D) Consensus algorithm implementation