Q1. Early computers mainly focused on which primary goal?
A) Making computing portable
B) Reducing manual calculation effort
C) Improving graphical output
D) Supporting internet communication
Correct Answer: B

Q2. A programming language is best chosen based on:
A) Popularity among developers
B) Hardware configuration
C) Problem type and application need
D) Compiler size
Correct Answer: C

Q3. AI systems are considered intelligent mainly because they can:
A) Store large amounts of data
B) Follow fixed instructions quickly
C) Adapt decisions based on patterns
D) Replace all human thinking
Correct Answer: C

Q4. Firewalls in a network mainly act as:
A) Speed boosters
B) Data storage units
C) Traffic monitoring gates
D) Backup systems
Correct Answer: C

Q5. The shift from vacuum tubes to transistors primarily improved:
A) Computer size and reliability
B) Programming complexity
C) User interface design
D) Internet connectivity
Correct Answer: A

Q6. An interpreted language is preferred when the focus is on:
A) Execution speed
B) Quick testing and debugging
C) Hardware-level access
D) Memory optimization
Correct Answer: B

Q7. Machine Learning models improve performance mainly by:
A) Increasing hardware power
B) Rewriting program logic
C) Learning from experience (data)
D) Using faster networks
Correct Answer: C

Q8. HTTPS is more secure than HTTP because it:
A) Loads websites faster
B) Compresses web pages
C) Encrypts data during transfer
D) Blocks advertisements
Correct Answer: C

Q9. Operating systems mainly help users by:
A) Designing applications
B) Managing hardware and software interaction
C) Writing programs automatically
D) Connecting to the internet
Correct Answer: B

Q10. Procedural programming emphasizes:
A) Objects and classes
B) Logic flow through functions

C) Event handling
D) Hardware interaction
Correct Answer: B
Q11. Data Science primarily focuses on:
A) Hardware optimization
B) Website development
C) Extracting insights from data
D) Writing system software
Correct Answer: C
Q12. DNS is best described as:
A) A data encryption method
B) An IP security protocol
C) A system converting names to addresses
D) A server monitoring tool
Correct Answer: C
Q13. Computers are considered versatile because they can:
A) Work without electricity
B) Perform multiple tasks with the same hardware
C) Learn emotions
D) Repair themselves
Correct Answer: B
Q14. Object-Oriented Programming improves code by:
A) Making programs shorter
B) Hiding hardware details
C) Promoting reusability and structure
D) Avoiding logic errors
Correct Answer: C
Q15. AI used in recommendation systems mainly analyzes:
A) Random user activity
B) Hardware performance
C) User behavior patterns
D) Internet speed
Correct Answer: C
Q16. Cloud computing is popular mainly because it offers:
A) Free software always
B) On-demand scalable resources
C) Offline access
D) Faster CPUs only
Correct Answer: B
Q17. The primary role of input devices is to:
A) Display information
B) Process data
C) Provide data to the system
D) Store instructions
Correct Answer: C
Q18. A compiler differs from an interpreter because it:
A) Translates code line by line
B) Translates the entire program at once
C) Requires no syntax checking
D) Runs without hardware support
Correct Answer: B
Q19. Supervised learning is identified by:
A) No training data
B) Labeled training data
C) Random output
D) Hardware dependency
Correct Answer: B

Q20. VPNs are commonly used to:
A) Increase internet speed
B) Hide IP and secure connections
C) Block malware automatically
D) Replace antivirus software
Correct Answer: B
Q21. Computer memory hierarchy is designed mainly to:
A) Reduce system cost
B) Balance speed and storage capacity
C) Improve software design
D) Increase internet bandwidth
Correct Answer: B
Q22. Functional programming mainly avoids:
A) Mathematical functions
B) Variable state changes
C) Code readability
D) User input
Correct Answer: B
Q23. AI chatbots respond accurately mainly due to:
A) Stored scripts only
B) Predefined answers
C) Language pattern learning
D) Internet speed
Correct Answer: C
Q24. Two-factor authentication improves security by:
A) Using longer passwords
B) Adding an extra verification step
C) Encrypting databases
D) Blocking login attempts
Correct Answer: B
Q25. Computers handle data in binary mainly because:
A) Humans understand it easily
B) It matches electronic signal states
C) It reduces program size
D) It improves graphics
Correct Answer: B
Q26. Scripting languages are mainly used for:
A) System-level programming
B) Hardware control
C) Automation and quick tasks
D) Device drivers
Correct Answer: C
Q27. Data preprocessing in ML helps to:
A) Reduce model accuracy
B) Clean and prepare raw data
C) Increase hardware usage
D) Avoid training
Correct Answer: B
Q28. Phishing attacks mainly aim to:
A) Damage hardware
B) Steal sensitive information
C) Slow down networks
D) Corrupt software files
Correct Answer: B
Q29. Firmware differs from software mainly in that it is:
A) Stored on removable media
B) Easily editable

C) Embedded in hardware
D) Internet-based
Correct Answer: C
Q30. Strong typing in programming helps to:
A) Increase execution speed
B) Reduce runtime errors
C) Improve hardware control
D) Simplify syntax
Correct Answer: B
Q31. AI in image recognition works primarily by:
A) Comparing image sizes
B) Detecting visual patterns
C) Using camera quality
D) Increasing pixel count
Correct Answer: B
Q32. IoT devices are effective mainly because they:
A) Operate independently
B) Share data over networks
C) Replace servers
D) Reduce power usage
Correct Answer: B
Q33. The main function of cache memory is to:
A) Store permanent data
B) Reduce CPU access time
C) Replace RAM
D) Increase storage size
Correct Answer: B
Q34. Low-level languages are closer to:
A) Human logic
B) Mathematical formulas
C) Machine instructions
D) Internet protocols
Correct Answer: C
Q35. Clustering in ML is mainly used for:
A) Prediction with labels
B) Grouping similar data
C) Error correction
D) Data encryption
Correct Answer: B
Q36. Blockchain technology is valued mainly for:
A) Speed
B) Centralized control
C) Data immutability
D) Low storage usage
Correct Answer: C
Q37. The role of an ALU is to:
A) Manage memory
B) Control input devices
C) Perform calculations
D) Handle networking
Correct Answer: C
Q38. Event-driven programming is most suitable for:
A) Batch processing
B) Interactive applications
C) Mathematical computation
D) Hardware control
Correct Answer: B

Q39. AI bias mainly occurs due to:
A) Hardware limitations
B) Poor network speed
C) Biased training data
D) Programming syntax
Correct Answer: C
Q40. Cybersecurity policies mainly help organizations to:
A) Increase profits
B) Control employee behavior
C) Protect digital assets
D) Improve system speed
Correct Answer: C