

Q41 – Q60 (Moderate + Slightly Hard Mix)

Q41. Computer generations are classified mainly based on:

- A) Speed improvement
- B) Storage capacity
- C) Underlying hardware technology
- D) Programming language used

Correct Answer: C

Q42. A language supporting both OOP and procedural styles offers:

- A) Hardware independence
- B) Design flexibility
- C) Faster compilation
- D) Smaller programs

Correct Answer: B

Q43. Overfitting in ML means the model:

- A) Performs poorly always
- B) Learns noise instead of patterns
- C) Has less data
- D) Uses weak algorithms

Correct Answer: B

Q44. Zero-day vulnerabilities are dangerous because they are:

- A) Easy to detect
- B) Already patched
- C) Exploited before fixes exist
- D) User-created

Correct Answer: C

Q45. Virtual memory helps systems by:

- A) Increasing RAM size physically
- B) Using disk space as memory
- C) Replacing cache
- D) Speeding up CPU

Correct Answer: B

Q46. Dynamic typing mainly benefits developers by:

- A) Faster execution
- B) Flexible variable usage
- C) Lower memory use
- D) Strong security

Correct Answer: B

Q47. Feature selection improves ML models by:

- A) Increasing dataset size
- B) Removing irrelevant inputs
- C) Adding randomness
- D) Increasing hardware usage

Correct Answer: B

Q48. End-to-end encryption ensures data is readable only by:

- A) Network providers
- B) Hackers
- C) Sender and receiver
- D) Firewalls

Correct Answer: C

Q49. Computer architecture mainly defines:

- A) User interface
- B) System-level design
- C) Application layout
- D) Internet speed

Correct Answer: B

Q50. Recursion is preferred when a problem:

- A) Is time-critical
- B) Has repetitive structure
- C) Needs fast output
- D) Uses large memory

Correct Answer: B

Q51. NLP enables machines to:

- A) Read images
- B) Process human language
- C) Improve hardware design
- D) Control robots

Correct Answer: B

Q52. Network latency mainly affects:

- A) Storage size
- B) Data transfer delay
- C) System security
- D) Power usage

Correct Answer: B

Q53. Multitasking OS improves performance by:

- A) Running one task faster
- B) Sharing CPU time efficiently

- C) Increasing RAM size
- D) Reducing software count

Correct Answer: B

Q54. Garbage collection helps by:

- A) Removing syntax errors
- B) Managing unused memory
- C) Increasing speed
- D) Encrypting data

Correct Answer: B

Q55. Reinforcement learning is based on:

- A) Predefined labels
- B) Trial and reward mechanism
- C) Random guessing
- D) Supervised feedback

Correct Answer: B

Q56. A DDoS attack mainly targets:

- A) Data integrity
- B) Network availability
- C) User privacy
- D) Password strength

Correct Answer: B

Q57. Embedded systems are designed mainly for:

- A) General-purpose computing
- B) Dedicated functions
- C) High storage tasks
- D) Internet browsing

Correct Answer: B

Q58. APIs are mainly used to:

- A) Design interfaces
- B) Allow software interaction
- C) Control hardware
- D) Store data

Correct Answer: B

Q59. Model accuracy alone may be misleading when:

- A) Data is small
- B) Data is balanced
- C) Classes are imbalanced
- D) Hardware is slow

Correct Answer: C

Q60. Password managers improve security mainly by:

- A) Making passwords visible
- B) Reusing passwords
- C) Generating strong unique passwords
- D) Disabling authentication

Correct Answer: C