1

Question: What is the fundamental difference between artificial neural networks and traditional

digital computers in terms of their computational approach?

A) Neural networks are designed to be linear and serial, while digital computers are parallel and

nonlinear.

B) Neural networks mimic the human brain's nonlinear and parallel processing, while digital

computers are typically linear and serial.

C) Both neural networks and digital computers use identical computational methods and

architectures.

D) Neural networks focus on speed and complexity, while digital computers prioritize simplicity and

efficiency.

Correct Answer: B

2

Question: In a neural network, what component is analogous to the connections between neurons in

the human brain and is responsible for storing learned information?

A) Activation function

B) Input signal

C) Synaptic weights

D) Output amplitude

Correct Answer: C

3

Question: If you are training a neural network to classify images of cats and dogs, and you provide

the network with labeled images indicating which are cats and which are dogs, what type of learning

is this?

A) Unsupervised learning

- B) Reinforcement learning
- C) Supervised learning
- D) Contextual learning

Correct Answer: C