

# Sample Questions with Answers

## Artificial Intelligence - Deep Learning

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Artificial Intelligence

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### Question 1:

What is deep learning?

- A) Machine learning using neural networks with many layers
- B) Learning from deep ocean data
- C) Advanced programming techniques
- D) Complex mathematical calculations

**[ANSWER] Answer & Explanation:**

A

### Question 2:

What makes a neural network "deep"?

- A) Having multiple hidden layers
- B) Using complex algorithms
- C) Processing large datasets
- D) Running for long periods

**[ANSWER] Answer & Explanation:**

A

### Question 3:

What is an activation function?

- A) Function that determines neuron output
- B) Function that starts the program
- C) Function that loads data
- D) Function that saves results

**[ANSWER] Answer & Explanation:**

A

### Question 4:

What is backpropagation?

- A) Algorithm for training neural networks by propagating errors backward
- B) Method for data preprocessing
- C) Technique for model compression
- D) Approach for feature selection

**[ANSWER] Answer & Explanation:**

A

### Question 5:

What is the vanishing gradient problem?

- A) Gradients become too small in deep networks
- B) Gradients disappear from memory
- C) Gradients become negative
- D) Gradients cause overflow errors

**[ANSWER] Answer & Explanation:**

A

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