**1. Which of the following is NOT a key characteristic of Artificial Intelligence?**	
a) Learning	
b) Problem-solving	
c) Self-awareness	
d) Adaptation	
**Correct Answer: c) Self-awareness**	
**Explanation:** While AI can mimic human behavior, genuine self-awareness and consciousness are	not
**2. What type of AI is a virtual assistant like Siri or Alexa considered to be?**	
a) Super AI	
b) General Al	
c) Narrow Al	
d) Strong Al	
**Correct Answer: c) Narrow AI**	
**Explanation:** Siri and Alexa are examples of narrow AI, designed to perform specific tasks rather that	ุงท (
**3. Which of the following is NOT a benefit of Artificial Intelligence?**	
a) Increased efficiency	
b) Reduced human error	
c) Complete elimination of bias	
d) Automation of repetitive tasks	
**Correct Answer: c) Complete elimination of bias**	
**Explanation:** Al systems can inherit biases from the data they are trained on. While Al can help mitig	gat

Here are 18 quiz questions based on the provided notes, expanding on the themes and adding new ones:

**4. A hypothetical AI that possesses human-level intelligence across various domains is known as:**
a) Narrow Al
b) General AI
c) Super AI
d) Artificial General Intelligence (AGI)
**Correct Answer: b) General AI** or **d) Artificial General Intelligence (AGI)**
**Explanation:** Both terms refer to a hypothetical AI with human-level intelligence across various tasks.
**5. Which of the following is an example of an application of Artificial Intelligence?**
a) Manual data entry
b) Self-driving cars
c) Traditional calculator use
d) Hand-written letter transcription (by a human)
**Correct Answer: b) Self-driving cars**
**Explanation:** Self-driving cars rely heavily on AI for navigation, object recognition, and decision-making
**6. Machine learning is a subset of:**
a) Deep learning
b) Natural Language Processing
c) Artificial Intelligence
d) Robotics
**Correct Answer: c) Artificial Intelligence**
**Explanation:** Machine learning is a technique used to enable AI systems to learn from data without exp
**7. What is Natural Language Processing (NLP)?**
a) A type of robot

b) A way for computers to understand human language c) A programming language d) A type of machine learning algorithm \*\*Correct Answer: b) A way for computers to understand human language\*\* \*\*Explanation:\*\* NLP focuses on enabling computers to process and understand human language. \*\*8. Deep learning utilizes:\*\* a) Shallow neural networks b) Single-layer neural networks c) Artificial neural networks with multiple layers d) Linear regression models \*\*Correct Answer: c) Artificial neural networks with multiple layers\*\* \*\*Explanation:\*\* Deep learning uses artificial neural networks with many layers to extract increasingly comp \*\*9. Which of the following is a potential risk associated with AI?\*\* a) Increased productivity b) Job creation in new fields c) Algorithmic bias d) Personalized services \*\*Correct Answer: c) Algorithmic bias\*\* \*\*Explanation:\*\* Al systems can perpetuate and amplify existing biases present in the data they are trained \*\*10. The Turing Test assesses a machine's ability to:\*\* a) Solve complex mathematical problems b) Exhibit human-like intelligence c) Process large amounts of data quickly

- d) Learn from experience \*\*Correct Answer: b) Exhibit human-like intelligence\*\* \*\*Explanation:\*\* The Turing Test aims to determine if a machine can convincingly imitate human conversal \*\*11. Expert systems are AI systems that:\*\* a) Learn from experience autonomously. b) Emulate the decision-making of human experts. c) Process natural language perfectly. d) Always make perfectly accurate predictions. \*\*Correct Answer: b) Emulate the decision-making of human experts.\*\* \*\*Explanation:\*\* Expert systems are designed to mimic the expertise of humans in specific fields. \*\*12. Computer vision is primarily concerned with:\*\* a) Building robots that can walk.
- b) Enabling computers to "see" and interpret images.
- c) Developing advanced programming languages.
- d) Improving human vision.
- \*\*Correct Answer: b) Enabling computers to "see" and interpret images.\*\*
- \*\*Explanation:\*\* Computer vision uses AI to enable computers to analyze and understand images and vide
- \*\*13. Which AI technique is best suited for identifying patterns in large datasets?\*\*
- a) Rule-based systems
- b) Machine learning
- c) Expert systems
- d) Symbolic Al

- \*\*Correct Answer: b) Machine learning\*\*
- \*\*Explanation:\*\* Machine learning algorithms excel at finding patterns and making predictions from large a
- \*\*14. What is a neural network?\*\*
- a) A type of computer chip
- b) A mathematical model inspired by the human brain
- c) A programming language
- d) A type of robot arm
- \*\*Correct Answer: b) A mathematical model inspired by the human brain\*\*
- \*\*Explanation:\*\* Neural networks are computational models loosely based on the structure and function of
- \*\*15. Reinforcement learning involves:\*\*
- a) Training a model on labeled data.
- b) An agent learning through trial and error by interacting with an environment.
- c) Manually programming rules into a system.
- d) Using only supervised learning techniques.
- \*\*Correct Answer: b) An agent learning through trial and error by interacting with an environment.\*\*
- \*\*Explanation:\*\* Reinforcement learning focuses on an agent learning optimal actions through rewards and
- \*\*16. Unsupervised learning deals with:\*\*
- a) Data with labeled inputs and outputs.
- b) Data without labeled inputs and outputs.
- c) Data that is explicitly programmed.
- d) Data requiring human intervention.
- \*\*Correct Answer: b) Data without labeled inputs and outputs.\*\*
- \*\*Explanation:\*\* Unsupervised learning algorithms discover patterns and structures in unlabeled data.

\*\*17. Which AI approach focuses on using symbols and rules to represent knowledge?\*\* a) Connectionism b) Symbolic Al c) Evolutionary algorithms d) Deep Learning \*\*Correct Answer: b) Symbolic AI\*\* \*\*Explanation:\*\* Symbolic AI uses logic and symbols to represent knowledge and reason. \*\*18. A chatbot is typically an example of which AI application?\*\* a) Computer Vision b) Robotics c) Natural Language Processing d) Expert Systems \*\*Correct Answer: c) Natural Language Processing\*\* \*\*Explanation:\*\* Chatbots use NLP to understand and respond to human text input.