1. Which of the following is NOT a good way to define AI? 1 / 1 point

- (●) AI is all about machines replacing human intelligence.
- ( ) AI is the application of computing to solve problems in an intelligent way using algorithms.
- ( ) AI is the use of algorithms that enable computers to find patterns without humans having to hard code them manually
- ( ) AI is Augmented Intelligence and is not intended to replace human intelligence rather extend human capabilities

✓ Correct
While AI can involve simulation or imitation of intelligent human behavior, it is not solely about machines having human intelligence. It also involves machines augmenting human intelligence by extending human capabilities.

2. Which of the following is an attribute of Strong or Generalized AI? 1 / 1 point

- ( ) Can perform specific tasks, but cannot learn new ones
- ( ) Operate with human-level consciousness
- (●) Perform independent tasks
- ( ) Cannot teach itself new strategies

✓ Correct
Strong or Generalized AI can perform independent tasks and teach itself new strategies to solve new problems.

3. AI is the fusion of many fields of study. Which of these fields, along with Computer Science, plays a role in the application of AI? 1 / 1 point

- (●) All responses are correct
- ( ) Statistics
- ( ) Philosophy
- ( ) Mathematics

✓ Correct
AI is the fusion of all of these fields of study, and more. While Philosophy provides guidance on intelligence and ethical considerations in the application of

AI, Mathematics and Statistics help determine viable learning models and measure performance.

4. Which of these is NOT a current application of AI? 1 / 1 point

- (●) Making precise patient diagnosis and prescribing independent treatment
- ( ) Classifying rock samples to identify best places to drill for oil
- ( ) Self-Driving vehicles utilizing Computer Vision to navigate around objects
- ( ) Collaborative Robots helping humans lift heavy containers

✓ Correct
In Healthcare, while AI is being used to support doctors arrive at more accurate preliminary diagnoses, it is not yet being used to replace one-on-one interactions between doctors and patients.

5. Natural Language AI algorithms that learn by example are the reason we can talk to machines and they can talk back to us. 1 / 1 point

- (●) True
- ( ) False

✓ Correct
The Natural Language Processing and Natural Language Generation capabilities of AI make it possible for machines and humans to interact with each other using natural language. Examples of this include Watson, Alexa, Siri, Cortana, and Google Assistant.

6. Advances in the field of Computer Vision make which of the following possible? 1 / 1 point

- ( ) On-demand online tutors
- ( ) Detecting fraudulent transactions
- (●) Detecting cancerous moles in skin images
- ( ) Real-time transcription

✓ Correct

Computer vision algorithms are helping doctors arrive at more accurate preliminary diagnoses. AI-powered advancements in this technology make it possible to find symptoms in X-Ray and MRI scans and even detect cancerous moles in skin images.

7. Which of these is currently NOT an application of Collaborative Robots or Cobots? 1 / 1 point

- (●) Personal use in the home such as doing the laundry and cooking for example
- ( ) Robots helping humans lift heavy containers
- ( ) Robots helping move items on shelves for stocking purposes
- ( ) Robots assisting or replacing humans in jobs that may be dull, dangerous, ineffective or inefficient when done by humans

✓ Correct
Collaborative robots being used in homes to support us in our personal tasks such doing laundry independently is certainly a future possibility but not yet a reality.

8. Which of the following aspects involved in converting the stethoscope into a digital device to support patient diagnoses involves the use of AI? 1 / 1 point

- ( ) Sending digital signals to a mobile device with a machine learning app via bluetooth
- ( ) Graphing heart beat data on the mobile device allowing a physician to spot trends
- ( ) Inserting a digitizer into the stethoscope tube to convert the analog sound of the heart beat into a digital signal
- (●) An app on the mobile device that applies learnings from previous diagnosis data to assist the physicians in their current diagnoses

✓ Correct
The app that uses machine learning algorithms trained on previous diagnosis data to suggest diagnosis and assist the physician in their findings is very much an application of AI.

9. Which of the following are applications of Artificial Intelligence in action? 1 / 1 point

A. IBM Watson utilizing its information retrieval capabilities to provide technical information to oil and gas company workers.
B. Watson analyzing Grammy nominated song lyrics over a 60-year period and categorizing them based on their emotions.
C. Assisting patients with neurological damage by detecting patterns in massive movement related datasets and using robots to trigger specific movements in the human body to create new neural pathways in the brain.
D. Law enforcement authorities using facial recognition algorithms to identify suspects in multiple streams of video footage

- ○ Only options A, B, and C are correct
- ○ Only option A is correct
- ○ None of the options are correct
- ◉ All of the options are correct

✓ Correct
Correct

10. Which of the following is NOT a way that AI learns? 1 / 1 point

- ◉ Intuitive learning
- ○ Reinforcement learning
- ○ Unsupervised learning
- ○ Supervised learning

✓ Correct
AI learns by examining examples to create machine learning models based on provided inputs and desired goals. And it does this in three different ways - Supervised, Unsupervised, and Reinforcement Learning.