

AI and ML in Health Science

Health Technology · Answer Key · 8 Questions

1. What is the primary function of AI in medical imaging?

- A) Cleaning hospital floors
- B) Diagnosing diseases from X-rays**
- C) Cooking hospital meals
- D) Driving ambulances

2. How does machine learning help in drug discovery?

- A) Predicting how molecules interact with human cells**
- B) Painting laboratory walls
- C) Cleaning test tubes
- D) Writing patient admission letters

3. What is a common use for AI in cardiology?

- A) Analysing heart rhythms from ECG data**
- B) Repairing broken bones
- C) Measuring human height
- D) Teaching patients to walk

4. Which type of data do ML algorithms often process to identify skin conditions?

- A) Blood pressure readings
- B) Images of skin lesions**
- C) Patient weight history
- D) Dental records

5. In neurology, what can AI-powered tools help monitor?

- A) Brain wave patterns in EEG**
- B) Human eye colour
- C) Hair growth rate
- D) Fingerprint ridges

6. What role does AI play in wearable health trackers?

- A) Tracking steps and heart rate patterns**
- B) Building physical muscle mass
- C) Replacing the need for sleep
- D) Changing blood type

7. How do ML models assist in cancer research?

A) Identifying patterns in genomic data

- B) Changing the weather
- C) Producing oxygen for hospitals
- D) Cleaning surgery equipment

8. What is one benefit of using AI for patient record management?

A) Organising medical history data efficiently

- B) Performing complex surgery
- C) Replacing all doctors
- D) Creating artificial blood