

Medical Technologies Level 3 Quiz – Answer Key

1) A gene is...

Select one:

- a) The genetic code
- b) **A package of DNA that expresses a specific trait**
- c) A medical term for a sick person
- d) Kind of food often prescribed to people recovering from surgery
- e) None of these

2) Bacteria grow best...

Select one:

- a) In boiling water
- b) In the freezer
- c) In a well-ventilated room
- d) **In a warm, moist, and dark environment**
- e) None of these

3) What is the purpose of a vaccine?

Select one:

- a) To eliminate all pathogens from the body
- b) To treat diseases after infection occurs
- c) **To stimulate the production of antibodies and provide immunity without inducing the disease**
- d) To increase the body's temperature to fight infection

4) What is the first step in vaccine production?

Select one:

- a) Packaging and distribution
- b) Purifying the antigen
- c) **Generating the antigen**
- d) Adding other components

5) Why is it important to immunize?

Select one:

- a) To strengthen muscles
- b) **To stimulate the immune system to fight diseases**
- c) To cure infections already present
- d) To enhance the body's natural energy levels

6) What breakthrough did students at Washington University School of Medicine discover in relation to HIV?

Select one:

- a) A vaccine for HIV
- b) A new antibiotic to treat HIV
- c) Nano particles with bee venom that destroy HIV cells without harming surrounding cells
- d) A cure for HIV using traditional medicine

7) Which of the following medical technologies represents a major advancement in diabetes management?

Select one:

- a) X-rays
- b) Inhalers
- c) Insulin pumps
- d) Glasses

8) What does having too much glucose in the blood indicate?

Select one:

- a) Cancer
- b) Diabetes
- c) HIV
- d) Low blood pressure

9) Why do doctors wash their hands frequently?

Select one:

- a) To prevent skin irritation
- b) To avoid spreading infections
- c) To prepare for surgery
- d) To maintain a clean appearance

10) Which of the following is not a time when hospital staff are required to wash their hands?

Select one:

- a) Before touching a patient
- b) After touching a patient's belongings
- c) After touching medical equipment
- d) After using the restroom