### **Quiz: Methods for Reducing the Carbon Footprint**

## 1. What is one of the key benefits of renewable energy like solar and wind power?

- a) Generates high levels of CO<sub>2</sub> emissions
- b) Has virtually no greenhouse gas emissions during operation
- c) Requires extensive use of fossil fuels for operation
- d) Increases air pollution

# 2. Which type of wind turbines benefits from stronger and more consistent winds?

- a) Onshore wind turbines
- b) Offshore wind turbines
- c) Solar wind turbines
- d) Hydroelectric turbines

# 3. What is the purpose of energy storage solutions in renewable energy systems?

- a) To generate additional emissions during production
- b) To store excess energy for use when production is low
- c) To increase land use for energy production
- d) To replace solar panels

#### 4. What is a challenge in adopting renewable energy systems?

- a) The lack of interest in reducing emissions
- b) High initial costs for infrastructure
- c) Overdependence on fossil fuels for energy storage
- d) Inability to integrate with existing grids

## 5. What is a key mechanism for improving energy efficiency in the building sector?

- a) Installing smart thermostats
- b) Avoiding insulation in buildings
- c) Encouraging the use of fossil fuels
- d) Relying on outdated HVAC systems

# 6. How does public transportation contribute to reducing carbon footprints?

- a) By increasing the number of private vehicles on the road
- b) By producing significantly lower emissions per passenger mile
- c) By replacing rail systems with diesel buses
- d) By encouraging traffic congestion

# 7. What is an advantage of anaerobic digestion in waste management?

- a) Produces biogas that can be used for energy
- b) Increases methane emissions in the atmosphere
- c) Relies entirely on non-organic waste
- d) Reduces the demand for renewable energy

## 8. Which urban planning practice helps reduce reliance on private vehicles?

- a) Promoting urban sprawl
- b) Supporting high-density development
- c) Limiting access to public transit
- d) Reducing green spaces

## 9. What is the purpose of carbon capture and storage (CCS) technology?

- a) To release CO<sub>2</sub> emissions into the atmosphere
- b) To prevent CO<sub>2</sub> emissions from industrial sources from entering the atmosphere
- c) To increase the efficiency of solar panels
- d) To reduce reliance on wind energy

#### 10. What is one key benefit of reforestation efforts?

- a) Releases more carbon dioxide into the atmosphere
- b) Increases biodiversity and improves soil health
- c) Destroys natural ecosystems for agriculture
- d) Reduces the need for sustainable practices

### **Answer Key**

- 1. **b)**
- 2. **b)**
- 3. **b)**
- 4. **b**)
- 5 a)
- 6. **b**
- 7. a)
- 8. **b)**
- 9. **b)**
- 10. **b)**