M1\_ Activity 1\_Level Basic. Introduction to Strategic Foresight for Sustainable Engineering MCQ

Having explored the fundamentals of strategic foresight and how it can be used to address long-term sustainability challenges in engineering, complete this short multiple-choice quiz (10 questions) to check your understanding.

**1. What is the main purpose of strategic foresight in sustainability planning?**  
 A) Predict the most likely future  
 B) Eliminate uncertainty in decision-making  
 C) Explore and prepare for multiple possible futures  
 D) Create technical designs for engineering systems  
 **Correct Answer:** C

**2. Which of the following best describes the Three Horizons framework?**  
 A) A model that analyses current energy costs  
 B) A method for implementing circular economy tools  
 C) A foresight model that outlines transitions over time  
 D) A software tool for life cycle assessment  
 **Correct Answer:** C

**3. In the STEEP framework, the ‘E’ for Environmental might include which of the following?**  
 A) Taxation policy  
 B) Water scarcity  
 C) Aging populations  
 D) Artificial intelligence  
 **Correct Answer:** B

**4. What distinguishes foresight from traditional forecasting?**  
 A) Foresight focuses only on near-term projections  
 B) Forecasting is used only in business contexts  
 C) Foresight explores multiple plausible futures  
 D) Forecasting is a qualitative method  
 **Correct Answer:** C

**5. Which of the following is an example of a ‘Political’ driver in STEEP?**  
 A) Public attitudes toward climate change  
 B) Global carbon pricing agreements  
 C) Adoption of renewable energy technologies  
 D) Urban population growth  
 **Correct Answer:** B

**6. What does the Three Horizons model help us understand?**  
 A) The financial risks in project design  
 B) The shift from current systems to future visions  
 C) The life cycle of materials used in infrastructure  
 D) The rate of pollution reduction in industrial zones  
 **Correct Answer:** B

**7. Scenario planning is about identifying one most likely future to plan for.**  
 **Answer:** False

**8. Strategic foresight is especially useful in sustainability because it helps anticipate long-term risks and system changes.**  
 **Answer:** True

**9. In the STEEP framework, which of the following is NOT typically included?**  
 A) Social  
 B) Environmental  
 C) Psychological  
 D) Technological  
 **Correct Answer:** C

**10. True or False: The goal of using foresight tools in engineering is to support more resilient and adaptive decisions.**  
 **Answer:** True