 Assignment 10

Please complete the following assignment based on the questions below. All answers must be submitted before due time.

1. There are two types of waves that can impact the ocean. What are they?
   - Waves generated by tides and storms

2. What is the formula for calculating the wavelength of a wave?
   - $\lambda = \frac{v}{f}$
   - Where $\lambda$ is wavelength, $v$ is velocity, and $f$ is frequency.

3. Which of the following is an example of a long wave?
   - Tsunami

4. What is the difference between a long wave and a short wave?
   - Long waves have longer wavelengths and slower velocities than short waves.

5. Choose the correct sequence of stages according to their existing speed and duration.
   - A) Function, trigger, propagate, dissipate
   - B) Trigger, propagate, function, dissipate
   - C) Propagate, function, trigger, dissipate
   - D) Dissipate, function, trigger, propagate

6. Which of the following is a factor that influences the wave height?
   - The depth of the water

7. What is the relationship between wave height and the period of the wave?
   - The period of the wave is independent of its height.

8. Which of the following statements is correct regarding wave behavior in shallow water?
   - Waves become more dispersed in shallow water.

9. Which of the following statements is correct regarding wave behavior in deep water?
   - Waves become more focused in deep water.

10. Choose the correct sequence of stages according to their existing speed and duration.
   - A) Function, trigger, propagate, dissipate
   - B) Trigger, propagate, function, dissipate
   - C) Propagate, function, trigger, dissipate
   - D) Dissipate, function, trigger, propagate