

## PHY102 – Quiz 1

Name:

1. Five wave crests pass a point in 10 seconds. What is the frequency of the wave? If the wave speed is 0.25 m/s what is the wavelength of the wave in meters?

1 crest passes in 2 seconds – this is time period T. Frequency =  $1/T = 0.5$  Hz  
Wavelength = speed/frequency =  $0.25/0.5 = 0.5$  m/s

2. What is name given to the phenomena that occurs when two waves add so as to produce a larger wave

Constructive interference

3. What is the name given to waves that do not carry energy from place to place

Standing waves/stationary waves