

## Extra Testing Guide - Physics 102B - Part II

### Evidence for wave nature of light:

1. Interference fringes formation in the experiment of double-slit interference.
2. Newton's experiment of dispersion of white light in dispersion prism. A spot of white light source has been dispersed into colors.
3. Light diffraction through several materials is due to the fact that light is a wave. The evidence can be as the diffraction of an electromagnetic wave with wavelength shorter and smaller than wavelength materials.

### Evidence for particle nature of light:

1. Photoelectric effect: Light \_\_\_\_\_ produces \_\_\_\_\_ energy \_\_\_\_\_
  - a. Without reaching frequency of light, electron will not be ejected from \_\_\_\_\_ material \_\_\_\_\_ even light is \_\_\_\_\_
  - b. When \_\_\_\_\_ change, maximum kinetic energy of electron \_\_\_\_\_ increases because the kinetic energy of photons is related to energy of frequency of frequency.
  - c. Energy transfer is equal to \_\_\_\_\_

Consider white light source _____ of white wavelength, but frequency _____ lower _____ higher
Explain the photoelectric effect according to what we _____ understand. There is energy in _____ light, which can be _____ light
Higher light energy _____ wavelength, but frequency _____ lower _____ higher depends on the _____ frequency of light, not the wavelength

2. The wave theory \_\_\_\_\_ to explain the photoelectric effect

# Note Taking Guide Episode 1302 Part 1 Answers

**G Orfield**



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