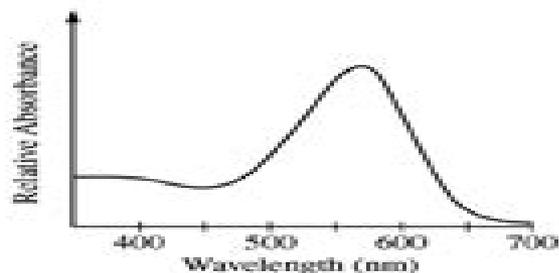
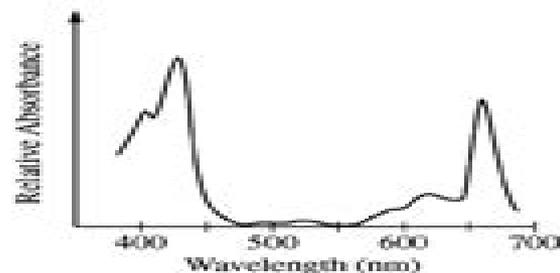


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**Question 2**



**Graph I**



**Graph II**

Color	Wavelength (nm)
Violet	380–450
Blue	450–475
Cyan	475–495
Green	495–570
Yellow	570–590
Orange	590–620
Red	620–750

An absorption spectrum indicates the relative amount of light absorbed across a range of wavelengths. The graphs above represent the absorption spectra of individual pigments isolated from two different organisms. One of the pigments is chlorophyll *a*, commonly found in green plants. The other pigment is bacteriorhodopsin, commonly found in purple photosynthetic bacteria. The table above shows the approximate ranges of wavelengths of different colors in the visible light spectrum.

- (a) **Identify** the pigment (chlorophyll *a* or bacteriorhodopsin) used to generate the absorption spectrum in each of the graphs above. **Explain** and **justify** your answer. (3 points maximum)

**1 point per box**

**Identify** BOTH pigments:

Graph 1 = bacteriorhodopsin AND graph 2 = chlorophyll *a*

**Explain** that an organism containing bacteriorhodopsin appears purple because the pigment absorbs light in the green range of the light spectrum and/or reflects violet or red and blue light. The reflected red and blue light appears purple.

**Explain** that an organism containing chlorophyll *a* appears green because the pigment absorbs light in the red and blue ranges of the light spectrum and/or reflects green light.

# Ap Biology Scoring Guidelines

**AW Chickering**



## **Ap Biology Scoring Guidelines:**

## Embracing the Song of Term: An Psychological Symphony within **Ap Biology Scoring Guidelines**

In a global consumed by monitors and the ceaseless chatter of fast conversation, the melodic beauty and emotional symphony developed by the written word frequently diminish in to the backdrop, eclipsed by the persistent noise and distractions that permeate our lives. However, set within the pages of **Ap Biology Scoring Guidelines** a wonderful literary treasure full of organic thoughts, lies an immersive symphony waiting to be embraced. Constructed by an elegant composer of language, this interesting masterpiece conducts readers on an emotional trip, skillfully unraveling the hidden tunes and profound influence resonating within each carefully crafted phrase. Within the depths of the moving examination, we can examine the book is key harmonies, analyze its enthralling publishing model, and surrender ourselves to the profound resonance that echoes in the depths of readers souls.

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