Physics chapter-1 human eye...

Question-Answers:

Q1: what is human eye ?

Ans1: it is a sense organ throw which human can able to see object and identify it.

Que 2: components of human eye?

Ans 2: the image is formed in retina.the light passes throught cornea and pupil regulates the amount of light enters the eye. Iris works as diaphrgm .

Que3:what is accommodation?

Ans3:the ability of eyelens to adjust its focal length is called accomadation.

Que4:what are the defects of vision?

Ans4.their are three defects of vision:

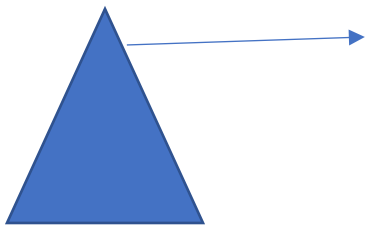
a)myopia: in this distinct objects looks blur.

b)hypermetropia: in this closest objects look blur.

c)presbyopia:in this both closer and farther objects look blur.

Que5. What is a prism?

Ans5.it is a glass like structure or any other transparent material which has two triangular and 3 rectangular surfacers .



Prism.

Que5: dispersion of light?

Ans5: when a white light passes throught a prism it spilts into a band of 7 colors (vibgyor). This phenomenon is called dispersion of light.

Que6: who introduced dispersion of light?

Ans6: sir issac newton.

Que7:what is spectrum?

Ans7: the band of seven colors on a flat surface is called spectrum.

Que8: what is scattering of light?

Ans8:when a beam of light strikes a particle whose diameter is greater than the wavelength of light than it

then it first absorbeds the light and then transmits it in all possible directions.this is called scattering of light.

Que9: application of scattering of light?

Ans 9: a)the color of sky looks blue during morning.

→ explanation: when the sun light strikes the atmospheric particles then all the colors of light are absorbed by particles and blur light is transmitted in all direction . that's why sky looks blue.

That is due to scattering of light.

b)the sun and the horizon looks reddish during sunset and sunrise:

→ explanation: during sunset and sunrise the sunlight had travelled a long distance and red light had the highest wavelength all the colors are absorbed by the atmosphere and reddish color is released .