

HOME ASSIGNMENT

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EXERCISES

Q. What do you mean by the term dispersion?

Ans) If white light is passed through a prism, it splits into different (7) colours. This is called dispersion of light.

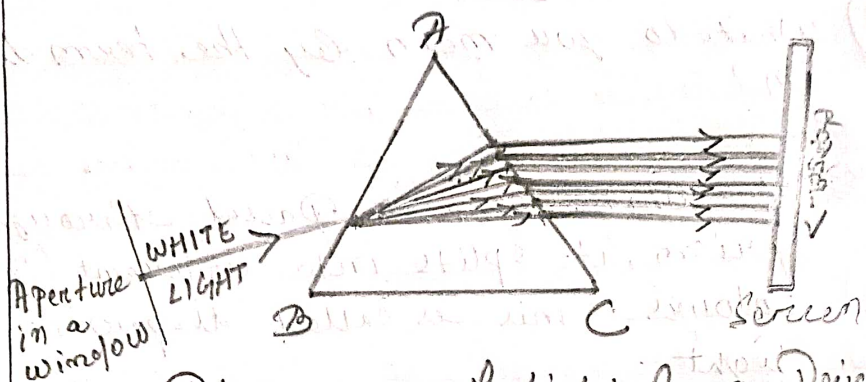
Q. A ray of white light falls on a prism. Draw a ray diagram to show that the prism disperses the white light.

Ans) Next Page.

Q. In Fig. 5.40, AO is the ray of white light falling in a prism PQR. Complete the diagram till the light emerges out from the prism & falls on the screen.

Ans) Next page.

(19)



### Dispersion of light by a Prism

(20)

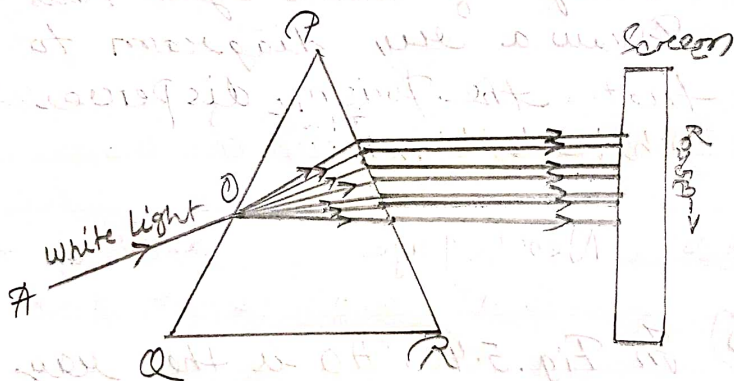


Fig. 5.40

(21)

What do you understand by the term spectrum? Name the various colours present in the spectrum of sunlight.

Ans → Spectrum is the coloured band obtained in a screen on passing the white light through a prism.

The several (7) colours present

in the spectrum of sunlight are

★ Violet (V)

★ Indigo (I)

★ Blue (B)

★ Green (G)

★ Yellow (Y)

★ Orange (O)

★ Red (R)

(22) You are given a disc divided into seven sectors with colours violet, indigo, blue, green, yellow, orange and red in them. What would be its colour when it is rotated rapidly?

Ans White colour would be noticed when it is rotated rapidly. The 7 colours are constituent colours of white light so when combined produced the white colour effect.