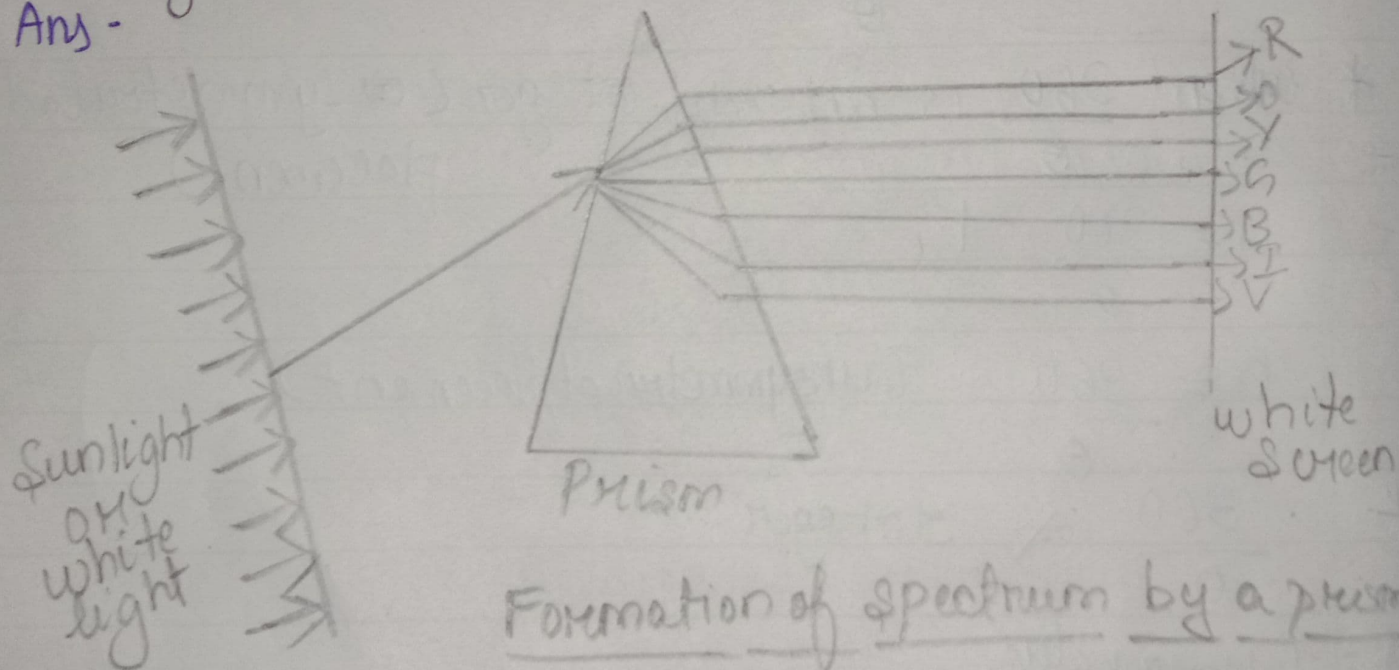


18.) What do you mean by the term dispersion?

Ans- The splitting up of light into its constituent colours while passing from one medium to the other is called dispersion.

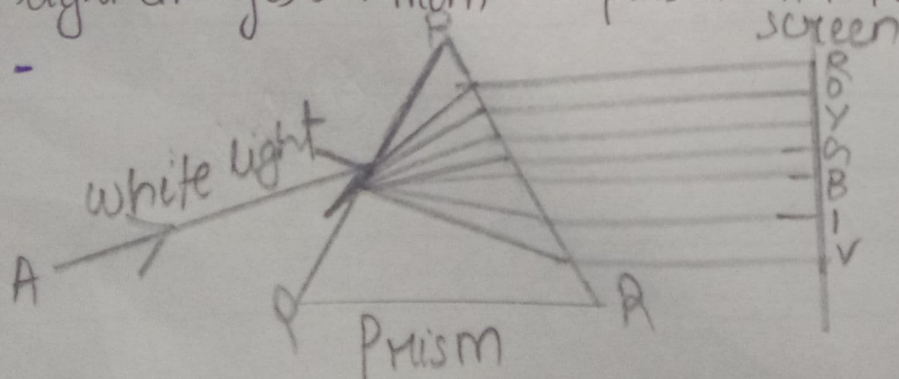
19.) A ray of white light falls on a prism. Draw a ray diagram to show that the prism disperses the white light.

Ans -



20.) In fig, AO is the ray of white light falling on a prism PQR. complete the diagram till the light emerges out from the prism and falls on the screen.

Ans -



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

Ans - Spectrum is the band of colours obtained on a screen when white light passes through a prism and splits into its constituent colours. The colours of the spectrum in sunlight are  $\rightarrow$  violet (V), Indigo (I), blue (B), green (G), Yellow (Y), Orange (O) and Red (R) VIBGYOR.

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 - In the disc of colours violet, indigo, green, blue, yellow, orange and red will ~~form~~ form white light, when it is rotated rapidly.