

1. Draw the following :-

 A- The basic operation of the Michelson’s interferometer.

 B- Diagram of a chromatic aberration of a lens.

1. A transparent medium has an index of refract that is

 a. less than 1 b. equal to one c. greater than one

1. In Newton’s ring experiment the light of wavelength 540nm is used, and radii of 32nd and 7th dark ring are found to be 6 mm and 3 mm respectively. Find the radius of curvature of the lens.
2. State Huygens's theory of double Refraction.
3. Define LDA, calculate the velocity of flow of liquid if the Doppler shift frequency 2.35 KHz, for laser light (2φ=12.6).