

1. Refraction through a lens involves refraction at ____

two curved surfaces

2. A laser beam is coherent because it contains __

coherent waves of a single wavelength

The colours on the soap bubble is due to

Interference

3. When the magnification of a lens is dependent on the distance from the principal axis, the aberration that arises is called

Distortion

4. A mariner observes a piece of stone at the bottom of a River 8.0m deep. If he looks from the surface of the River, what is the apparent distance of the stone from him? (Refractive index of water is $\frac{4}{3}$).

6.01m

5. A diverging mirror of 40.0 cm focal length produces a virtual image of 20.0 cm from the mirror. How far from the mirror should the object be placed?

40.0cm

6. Resolving power of telescope can be increased by increasing

the diameter of objective

7. Which of the following phenomenon is not explained by Huygen's wave theory?

Photoelectric effect

8. When is a prism said to be thin?

When the angle of the prism is very small

10. Polarisation of light proves the

transverse wave nature of light

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