
36. gives the definition of metre in terms of wavelength of red cadmium light

- [A.](#) Newton [B.](#) Einstein
[C.](#) Michelson [D.](#) Galileo

Answer: Option c

37. In Michelson interferometer to switch the fringe from bright to dark the mirror should be displaced through

- [A.](#) $\lambda / 2$ [B.](#) $\lambda / 3$
[C.](#) $\lambda / 6$ [D.](#) $\lambda / 4$

Answer: Option D

38. In the shadow of a ball the central portion appears bright that happens due to

- [A.](#) Interference [B.](#) Diffraction
[C.](#) Polarization [D.](#) Refraction

Answer: Option B

39. Which experiment shows that wavelength of light is smaller than that of sound

- [A.](#) Diffraction [B.](#) Polarization
[C.](#) Interference [D.](#) Reflection

Answer: Option A

40. Crystals of a material can behave as

- [A.](#) Convex lens [B.](#) Interferometer
[C.](#) Diffraction grating [D.](#) Concave

Answer: Option c