

Worksheet: Wave Optics

Madhya Pradesh State Board · Class 12 · Physics · 5 questions · 12 marks

Name: _____

Date: _____

Score: _____ / 12

Q1. In YDSE, $\lambda = 600 \text{ nm}$, $d = 0.2 \text{ mm}$, $D = 1.5 \text{ m}$. Find the fringe width. [2 marks]

Q2. Find Brewster's angle for glass ($\mu = 1.5$). [2 marks]

Q3. A single slit of width 0.1 mm with $\lambda = 500 \text{ nm}$ and screen at 1 m . Find the central maximum width. [3 marks]

Q4. Two polarisers are at 60 degrees. If I_0 falls on the first, find the transmitted intensity. [3 marks]

Q5. What happens to YDSE fringe width if the apparatus is immersed in water ($\mu = 4/3$)? [2 marks]
