Worksheet: Wave Optics

IB · Class 12 · Physics · 5 questions · 12 marks

Name: _____ Date: _____ Score: _____ / 12

Q1. In YDSE, lambda = 600 nm, d = 0.2 mm, D = 1.5 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 nm and screen at 1 m. Find the central maximum width. *[3 marks]*

Q4. Two polarisers are at 60 degrees. If I0 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]*