Maulana Azad National Institute of Technology Bhopal
Mini Test- (September - 2024)

Subject: Physics (PHY- 102) **Course: B. Tech.** **Semester -I** **Section: E**

Time: 50 minutes **Max. Marks: 10**

S. No	Questions	Marks
Q.No. 1	A parallel beam of light of wavelength 5890 Å is incident on a thin glass plate having refractive index 1.5 such that the angle of refraction into the plate is 60 degree. Calculate the smallest thickness of the glass plate which will appear dark in the reflected light?	3
Q.No. 2	What are the changes that are caused in the diffraction pattern if the number of slits is made large?	2
Q.No. 3	A wedge shaped film is illuminated by monochromatic light. Obtain an expression for fringe width of interference pattern formed.	3
Q.No. 4	Is it possible to get interference pattern on screen using two mobile sources light? Give the reason.	2