

Maulana Azad National Institute of Technology Bhopal

Mini Test- (December - 2020)

Subject: Physics (PHY- 112)

Course: B.Tech.

Semester -I

Section: D

Time: 50 minutes

Max. Marks: 20

S.No	Questions	Marks
Q.No. 1	What happens if white light incident over the thin film?	4
Q.No. 2	Calculate the path difference created between the beams for the disappearance of 25 rings in Michelson Interferometer experiment? (Given: $\lambda = 6328 \text{ \AA}$)	4
Q.No. 3	Calculate the maximum order achieved by grating for wavelength 4200 \AA if grating has 10000 no of lines in 1 cm.	4
Q.No. 4	What do you mean by absent spectra in transmission grating?	4
Q.No. 5	Discuss in brief about (a) fringes of equal thickness (b) central ring of Newton's Ring experiment	4