# PHYSICS - 201 <br> (Term 061) <br> QUIZ \# 4 

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Student's Name $\qquad$ ID \# $\qquad$ Sec $\qquad$
Q. 1 A camera lens with index of refractor C of 1.5 is coated with a thin transparent film of index of refraction of 1.25 . If this coating is to eliminate by interference the reflection of light of wave length of 550 mm . What is the minimum film thickness needed?
Q. 2 An object is 44 cm from a screen. How far from the object a lens of focal length 11 cm be placed to form an image of the object on the screen?
Q. 3 A concave sharing mirror has a radius of 35.0 cm . it is positioned so that the (upright) image of the man's face is 2.5 times the size of the face. How far is the mirror from the face?
Q. 4 A Young's experiment is performed with blue light (7 = 500 nm ). The slits are 1.2 mm apart and the viewing screen is 5.4 m from the slits. How far apart are the bright fringes?

