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**School of Medical and Allied Sciences**

Bachelor of Optometry

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

**Sem II - L1UA204T - Physical Optics**General Instructions*Answer to the specific question asked**Draw neat, labelled diagrams wherever necessary**Approved data hand books are allowed subject to verification by the Invigilator*

- 1) What is Refraction K2 (2)
- 2) Explain Total Internal Reflection K1 (3)
- 3) Derived the relationship between intensity and amplitude K2 (4)
- 4) Describe the phenomenon of birefringence and explain the ordinary and extraordinary rays. K2 (6)
- 5) Explain in details about Resolving power and Rayleigh criterion. K3 (6)
- 6) Explain the properties of light in details. K3 (9)
- 7) Explain polarization and distinguish between polarized and unpolarized light. K4 (8)
  
- 8) Examine in detail the Young's Double Slit experiment. K4 (12)

**OR**Explain each of the four theories of light in depth, K4 (12)