

**School of Medical and Allied Sciences**

**Bachelor of Optometry  
Semester End Examination - Jun 2024**

**Duration : 180 Minutes  
Max Marks : 100**

**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*

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|-----|--|--------|
| 1)  | What is wave   | K1(2)  |
| 2)  | Write the application of polarization by Birefringence   | K2(4)  |
| 3)  | List the properties of light.  | K2(6)  |
| 4)  | Describe the Airy's Disc in detail and include a diagram showing the diffraction conditions at various slits.                                  | K3(9)  |
| 5)  | Establish a thorough explanation of the Tyndall effect and Rayleigh scattering.  | K3(9)  |
| 6)  | Give a thorough classification of gratings and a diagrammatic description of concave reflection gratings.                                      | K5(10) |
| 7)  | Explain radiometry and mention the difference between photopic and scotopic luminous.  | K4(12) |
| 8)  | Create a diagram of the electromagnetic spectrum and describe its uses.  | K5(15) |
| 9)  | With a diagram, describe the concept of diffraction and interference and also explain the conditions for diffraction it at various slit sizes. | K5(15) |
| 10) | Explain Polarization in details  | K6(18) |