

School of Medical and Allied Sciences

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

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

Sem II - L1UA203T - Geometrical Optics-II*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) | Recall refractive index. | K1(2) |
| 2) | Evaluate with ray diagram about deviation and dispersion of light through prism. | K2(4) |
| 3) | Explain stiles crawford effect. | K2(6) |
| 4) | Conclude about back vertex distance and effective power of lenses. | K3(9) |
| 5) | Summarize about prism effect in spectacle lenses and prentice rule with its application. | K3(9) |
| 6) | Explain the importance of cycloplegic refraction with procedure. | K5(10) |
| 7) | Analyze binocular subjective refraction and its procedures in detail. | K4(12) |
| 8) | Differentiate between spherical and cylindrical lenses. | K5(15) |
| 9) | List any three methods of calculating presbyopic correction and discuss in detail. | K5(15) |
| 10) | Design gullstrand schematic eye in detail. | K6(18) |