School of Medical and Allied Sciences
Bachelor of Optometry
Mid Term Examination - Nov 2023

Duration : 90 Minutes
Max Marks : 50

Sem III - L1UA302T - Visual Optics-I

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) A concave mirror has a focal length of 15 cm. An object is placed 30 cm in front of the mirror. Determine the position of the image and its characteristics using ray diagrams. — K2 (2)

2) Explain the concept of reflection of light using the law of reflection. Provide an example illustrating the application of this law. — K1 (3)

3) Describe the role of the cornea and the lens in the refraction of light within the eye. — K2 (4)

4) Asses the etiology alongwith all the types of Myopia. — K2 (6)

5) Explain how the pupil's size is controlled and how it affects the amount of light entering the eye. — K3 (6)

6) Define the term "refraction of light." Describe how the speed of light changes when it travels from a rarer medium to a denser medium. — K3 (9)

7) Discuss the process of visual transduction, including the roles of photoreceptor cells and their interaction with the optic nerve. — K4 (8)

8) Appraise the prevalence of refractive errors globally. — K4 (12)

OR

Appraise the etiology, different types, clinical features and treatment of Near sightedness. — K4 (12)