

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLOMBO

MD (OPHTHALMOLOGY) OPTICS & REFRACTION EXAMINATION
APRIL 2021

Date:- 21st April 2021

Time:- 1.30 p.m. – 3.30 p.m.

Answer **all four (04)** questions.

Answer each question in a separate book.

1.

1.1. Regarding prisms explain the following using ray diagrams.

1.1.1. Angle of deviation. (15%)

1.1.2. Prentice position of a prism. (15%)

1.1.3. Prism dioptre and angle of apparent deviation. (20%)

1.2. Briefly discuss the use of prisms for **diagnostic** purposes in ophthalmic practice. (50%)

2. A 44-year-old school teacher presents with the complaint of recent onset of difficulty in reading.

2.1.

2.1.1. What factors should be considered when correcting the above problem? (40%)

2.1.2. Discuss the options you consider when treating his refractive problem. (40%)

2.2. He wishes to wear sunglasses for sports training.
List the advantages of absorptive lenses. (20%)

Contd...../2-

3.

- 3.1. What is the clinical definition of Low Vision? (10%)
- 3.2. What are the common causes of Low Vision? (20%)
- 3.3. How do you evaluate a Low Vision client?
List your answers. (30%)
- 3.4. Briefly discuss the optical Low Vision devices. (40%)

4. Write short notes on

- 4.1. Optical principals of Optical Coherence Tomography (OCT) (30%)
- 4.2. Illumination methods of Slit lamp examination. (40%)
- 4.3. Catoptric images. (30%)