

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLO\IBO

REFRACTION MODULE IN OPHTHALMOLOGY
JULY 2002

Date :- 5th July, 2002

Time :-2.00 p.m.-4.00p.m

ESSAY PAPER

All questions are to be answered.
Answer each question in a separate book.

1. A 50 year old had a secondary intra ocular lens implant in one eye and is phakic in the other. He complained of diplopia for distance and ground till on looking down with the newly prescribed bifocals.
 - 1.1. List the possible causes (50 marks)
 - 1.2. Describe the management for non spectacle related causes (50 marks)

2.
 - 2.1. What is the "Prentice Position" of a prism. Illustrate with ray diagrams. (25 marks)
 - 2.2. Discuss briefly use of these prisms in Ophthalmology (25 marks each)
 - (a) Wollaston Prism
 - (b) Fresnel Prism
 - (c) Base in Prism

3.
 - 3.1. Describe the effective power of lenses using ray diagrams. (60 marks)
 - 3.2. What is the back vertex distance ? What is its significance ? (40 marks)

4. Write short notes
 - 4.1. Diffraction (40 marks)
 - 4.2. mode of action of ophthalmic of lasers (30 marks)
 - 4.3. tests of stereoacuity (30 marks)

POSTGRADUATE INSTITUTE OF MEDICINE
UNIVERSITY OF COLO\IBO

REFRACTION MODULE IN OPHTHALMOLOGY
JULY 2003

Date :- 14th July, 2003

Time :- 2.30 p.m. - 4.30 p.m.

ESSAY PAPER

All questions are to be answered.
Answer each question in a separate book.

1.
 - 1.1. What is presbyopia ?
 - 1.2. What are the factors will you consider in prescribing spectacles to a presbyope ?
 - 1.3. What are the different types of lenses available to correct presbyopia. Discuss the advantages and disadvantages of these lenses ?
2. Discuss the guidelines you will follow in correcting ametropia in children.
3.
 - 3.1. Describe with diagrams the optics of the slit lamp biomicroscope.
 - 3.2. What are the different methods used with the slit lamp to examine the cornea, anterior chamber and the lens ?
4. Write short notes on
 - 4.1. Absorptive lenses
 - 4.2. Progressive addition lenses
 - 4.3. Aspheric lenses