

**POSTGRADUATE INSTITUTE OF MEDICINE**  
**UNIVERSITY OF COLOMBO**

**OPHTHALMOLOGY MODULE III EXAMINATION – JULY 2013**

Date :- 25<sup>th</sup> July 2013

Time :- 1.30 p.m. – 3.30 p.m.

**ESSAY PAPER**

Answer all questions.

Answer each question in a separate book.

1. Describe the optical principles of Fundus camera (include the diagrams) <sup>Ray</sup>  
(100 marks) 100/
2.
  - 2.1. Describe briefly how pachymetry of the cornea is done. Add a note on the principles of it. (50 marks) 50/
  - 2.2. Describe the clinical importance of corneal pachymetry. (50 marks) 50/
3. A 50 year old gentlemen presented with a history of poor vision for distance. He has had a penetrating corneal injury repaired two months ago (the corneal injury does not involve the optical axis). He had good visual improvement with spectacle correction but he came back with <sup>h/c</sup> diplopia when he is wearing the spectacles.
  - 3.1. What are the possible optical reasons for visual impairment ? (25 marks) 25/
  - 3.2. How do you explain the diplopia with spectacle correction ? (30 marks) 30/
  - 3.3. Briefly describe the treatment options to overcome the diplopia. (45 marks) 45/
4. Write notes on -
  - 4.1. Light hazards on the eye (indicate one example for each of the condition you mentioned) (30 marks) 30/
  - 4.2. Specular reflection and its clinical usefulness (include line diagrams). (30 marks) 30/
  - 4.3. Toric lenses (40 marks) 40/