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POSTGRADUATE INSTITUTE OF MEDICINE  
UNIVERSITY OF COLOMBO

OPHTHALMOLOGY MODULE III EXAMINATION – APRIL 2018

Date :- 25<sup>th</sup> April 2018

Time :- 1.30 p.m. – 3.30 p.m.

ESSAY PAPER

Answer all questions.

Answer each question in a separate book.

1.
  - 1.1. Explain in brief image distortion in uncorrected astigmatism. (25%)
  - 1.2. Describe correction of image distortion in correcting astigmatism. (75%)
2.
  - 2.1. Describe the optics of operating microscope. Use ray diagrams to explain your answer. (70%)
  - 2.2. Explain in brief the special features of the operating microscope which are important in ocular surgeries. (30%)
3. Explain briefly the optical correction given to
  - 3.1. a 24 year old driver who had undergone right side cataract extraction and PC IOL for a traumatic cataract at the age of 12 years and has a refraction of  
 $R/+5.50 - 3.00 \times 60^{\circ} / 18$   
 $L/-0.50 \text{ DS } 6/6$  (50%)
  - 3.2. a 40 year old school teacher with a refraction of  
 $R/-7.00 \text{ DS } 6/6$   
 $L/-8.50 \text{ DS } 6/6$  (50%)

Contd..../2-

4. Write short notes on:

- |                                 |       |
|---------------------------------|-------|
| 4.1. Interference               | (30%) |
| 4.2. Overrefraction             | (30%) |
| 4.3. Production of laser energy | (40%) |