

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

**MD (OPHTHALMOLOGY) OPHTHALMIC BASIC SCIENCES**  
**EXAMINATION – MARCH 2018**

**Date:-** 5<sup>th</sup> March 2018

**Time :-** 1.00 p.m. – 2.30 p.m.

**STRUCTURED ESSAY PAPER I**

**Answer all questions.**

**Answer each question in a separate book. (Question 1, 2, 3.1 and 3.2)**

1.

1.1. Briefly describe the anatomy of the Choroidal vasculature. (35%)

1.2. Describe the relations of the optic chiasma. (35%)

1.3. Outline the development of the vitreous. (30%)

2.

2.1. Name the structures that can be visualized in drainage angle of a normal adult. (20%)

2.2. Describe the normal anatomy of the aqueous outflow apparatus. (80%)

3.

3.1. A patient was sent to the Eye Clinic from the OPD, who presented following a quarry blast injury to the eye.

3.1.1. List the imaging investigations that you will perform in this patient. (10%)

3.1.2. Discuss what you expect to see in the above investigations giving reasons. (30%)

3.1.3. Give the advantages and disadvantages of the above investigations. (10%)

3.2. A six month old baby is sent to the ophthalmology clinic with poor visual fixation. His notes record that he has Down syndrome. His mother shows you his karyotype that reveals a translocation form of Down syndrome.

3.2.1. Outline the genetic basis of the chromosome abnormality causing translocation Down syndrome. (10%)

3.2.2. Outline the pregnancy outcomes when one of the parents is a translocation carrier. (25%)

3.2.3. Outline how you would determine the risks to a future pregnancy in this child's parents. (15%)