



Name : .....

Roll No. : .....

Invigilator's Signature : .....

**CS/B.OPTM/SEM-2/BO-202/2013**

**2013**

**PHYSIOLOGY ( OCULAR )**

Time Allotted : 3 Hours

Full Marks : 70

*The figures in the margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**GROUP - A**

**( Multiple Choice Type Questions )**

1. Choose the correct alternatives for any *ten* of the following :  
10 × 1 = 10

- i) The corneal endothelium lines
  - a) Posterior aspect of Bowman's membrane
  - b) Anterior aspect of Bowman's membrane
  - c) Anterior aspect of descemet's membrane
  - d) Posterior aspect of descemet's membrane.
  
- ii) Secondary action of superior oblique is
  - a) intorsion
  - b) extorsion
  - c) depression
  - d) elevation.

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- iii) Accomodation leads to
- a) Tension of zonules
  - b) Relaxation of zonules
  - c) Disappearance of zonules
  - d) Appearance of zonules.
- iv) In which of the following reflexes the pupil dilates
- a) light reflex
  - b) near reflex
  - c) psychosensory reflex
  - d) all of these.
- v) The size of normal pupil is
- a) 2-4 mm
  - b) 5-8 mm
  - c) 1-2 mm
  - d) none of these.
- vi) The intraocular pressure is measured by
- a) Perimeter
  - b) Pachometer
  - c) Tonometer
  - d) Keratometer.

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**GROUP - B**

**( Short Answer Type Questions )**

Write short notes on any *three* of the following.

3 × 5 = 15

2. Vitreous humour
3. Stimulus for accommodation
4. Tear film abnormalities
5. E.O.G.

**GROUP - C**

**( Long Answer Type Questions )**

Answer any *three* of the following. 3 × 15 = 45

6. a) Discuss the factors affecting IOP. control.  
b) How is aqueous produced ? Discuss its "flow" path and how is it eliminated ( drained out ) from the eye. 5 + 10
7. a) Discuss briefly the various theories of colour vision defects.  
b) Discuss the common types of colour defects.  $7\frac{1}{2} + 7\frac{1}{2}$
8. Discuss the following : 5 + 5 + 5
  - a) Functions of the pupil
  - b) The pathway of light reflex
  - c) Near reflex pathway.
9. Discuss the following :
  - a) What are "Yoke muscles" ? Give 2 examples and explain your answer
  - b) What is "accommodation" ? Discuss the role of "lens capsule" in accommodation.  $7\frac{1}{2} + 7\frac{1}{2}$

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