	Utech
Name :	
Roll No. :	A Dame of Exercising and Excland

Invigilator's Signature :

CS/B.OPTM/SEM-2/BO-202/2013 2013 **PHYSIOLOGY (OCULAR)**

Time Allotted : 3 Hours

Full Marks: 70

[Turn over

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 : $10 \times 1 = 10$
 - The corneal endothelium lines i)
 - 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
 - depression c) 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.

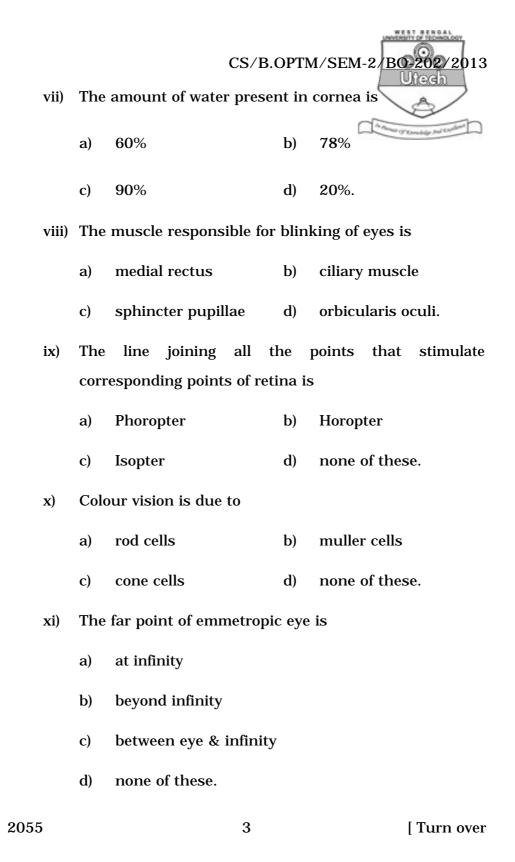
vi) The intraocular pressure is measured by

- a) Perimeter b) Pachometer
- c) Tonometer d) Keratometer.

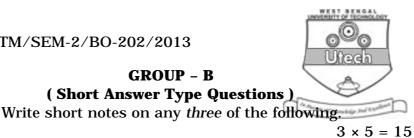
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- 2. Vitreous humour
- 3. Stimulus for accomodation
- Tear film abnormalities 4.
- 5. E.O.G.

GROUP - C (Long Answer Type Questions)

GROUP - B

Answer any three of the following. $3 \times 15 = 45$

- 6. Discuss the factors affecting IOP. control. a)
 - How is aqueous produced ? Discuss its "flow" path and b) how is it eliminated (drained out) from the eye. 5 + 10
- 7. Discuss breiefly the various theories of colour vision a) defects.

 $7\frac{1}{2} + 7\frac{1}{2}$ Discuss the common types of colour defects. b)

Discuss the following : 8.

5 + 5 + 5

- a) Functions of the pupil
- b) The pathway of light reflex
- Near reflex pathway. c)
- 9. **Discuss the following :**
 - What are "Yoke muscles" ? Give 2 examples and explain a) your answer
 - What is "accommodation" ? Discuss the role of "lens b) $7\frac{1}{2} + 7\frac{1}{2}$ capsule" in accomodation.

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