	<u>Utech</u>
Name:	
Roll No.:	
Invigilator's Signature :	

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

Full Marks: 70

PHYSIOLOGY (OCULAR)

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

Time Allotted: 3 Hours

- 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.

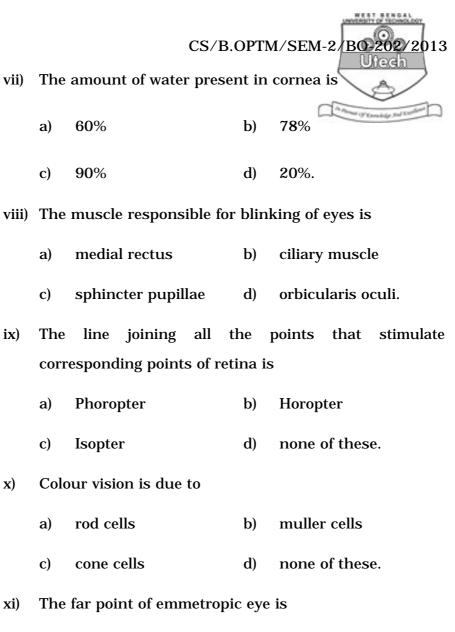
2055 Turn over

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



- 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.

2055



none of these. d)

a)

c)

a)

c)

The

a)

c)

a)

c)

a)

b)

c)

ix)

x)

xi)

60%

90%

line

Phoropter

Isopter

rod cells

cone cells

at infinity

beyond infinity

between eye & infinity

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(Short Answer Type Questions)

Write short notes on any three of the following.

 $3 \times 5 = 15$

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

GROUP - C

(Long Answer Type Questions)

Answer any three of the following.

 $3 \times 15 = 45$

- 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 breiefly 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 accomodation. $7\frac{1}{2} + 7\frac{1}{2}$

2055 4