	Utech
Name:	<u>A</u>
Roll No.:	In Spanning (VE) may being a Teach of the
Invigilator's Signature :	

CS/B.OPTM/SEM-2/BO-202/2012

2012

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.

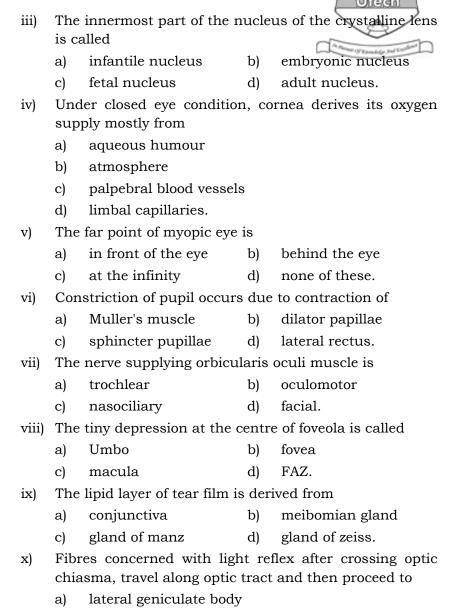
GROUP - A

(Multiple Choice Type Questions)

- 1. Choose the correct alternatives for the following : $10 \times 1 = 10$
 - i) Second order neuron is optic pathway are present in
 - a) retina
 - b) medical geniculate body
 - c) lateral geniculate body
 - d) superior coliculus.
 - ii) The 'blind spot' is situated at
 - a) fovea centralis
 - b) optic disc
 - c) 3 mm temporal to optic disc
 - d) 3 mm nasal to optic disc.

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b) c)

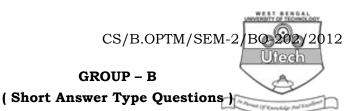
d)

medial geniculate body

2

ciliary ganglion

pretectal nucleus.



Write short notes on any *three* of the following: $3 \times 5 = 15$

- 2. Corneal endothelium.
- 3. Protective mechanisms of the eye.
- 4. Uveo scleral drainage pathway.
- 5. Light reflex pathway.

GROUP - C

(Long Answer Type Questions)

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

- 6. Discuss tear film dynamics under the following headingssecretion of tears, retention & redistribution of tears, drying and breakup of tear films and elimination of tears.
- 7. a) Discuss the different types of BINOCULAR eye movements.
 - b) Discuss briefly the functions of visual cortex. 10 + 5
- 8. a) Describe the changes in the various ocular structures during accommodation.
 - b) Discuss changes in the aging lens. 10 + 5
- 9. a) Discuss the factors regulating corneal transparency. Explain Maurice-Goldman theory.
 - b) Draw a labelled diagram (description not needed) for a typical rod and a cone. $7\frac{1}{2} + 7\frac{1}{2}$

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