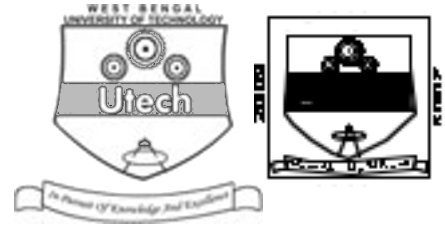


ANATOMY (OCULAR) (SEMESTER - 2)

CS / B.OPTM / SEM-2 / BO-203 / 09



1.
Signature of Invigilator

2.
Signature of the Officer-in-Charge

Reg. No.

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Roll No. of the Candidate

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CS / B.OPTM / SEM-2 / BO-203 / 09
ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009
ANATOMY (OCULAR) (SEMESTER - 2)

Time : 3 Hours]

[Full Marks : 70

INSTRUCTIONS TO THE CANDIDATES :

1. This Booklet is a Question-cum-Answer Booklet. The Booklet consists of **32 pages**. The questions of this concerned subject commence from Page No. 3.
2. a) In **Group – A**, Questions are of Multiple Choice type. You have to write the correct choice in the box provided **against each question**.
 b) For **Groups – B & C** you have to answer the questions in the space provided marked 'Answer Sheet'. Questions of **Group – B** are Short answer type. Questions of **Group – C** are Long answer type. Write on both sides of the paper.
3. **Fill in your Roll No. in the box** provided as in your Admit Card before answering the questions.
4. Read the instructions given inside carefully before answering.
5. You should not forget to write the corresponding question numbers while answering.
6. Do not write your name or put any special mark in the booklet that may disclose your identity, which will render you liable to disqualification. Any candidate found copying will be subject to Disciplinary Action under the relevant rules.
7. **Use of Mobile Phone and Programmable Calculator is totally prohibited in the examination hall.**
8. You should return the booklet to the invigilator at the end of the examination and should not take any page of this booklet with you outside the examination hall, **which will lead to disqualification**.
9. Rough work, if necessary is to be done in this booklet only and cross it through.

No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY

Marks Obtained

Group – A

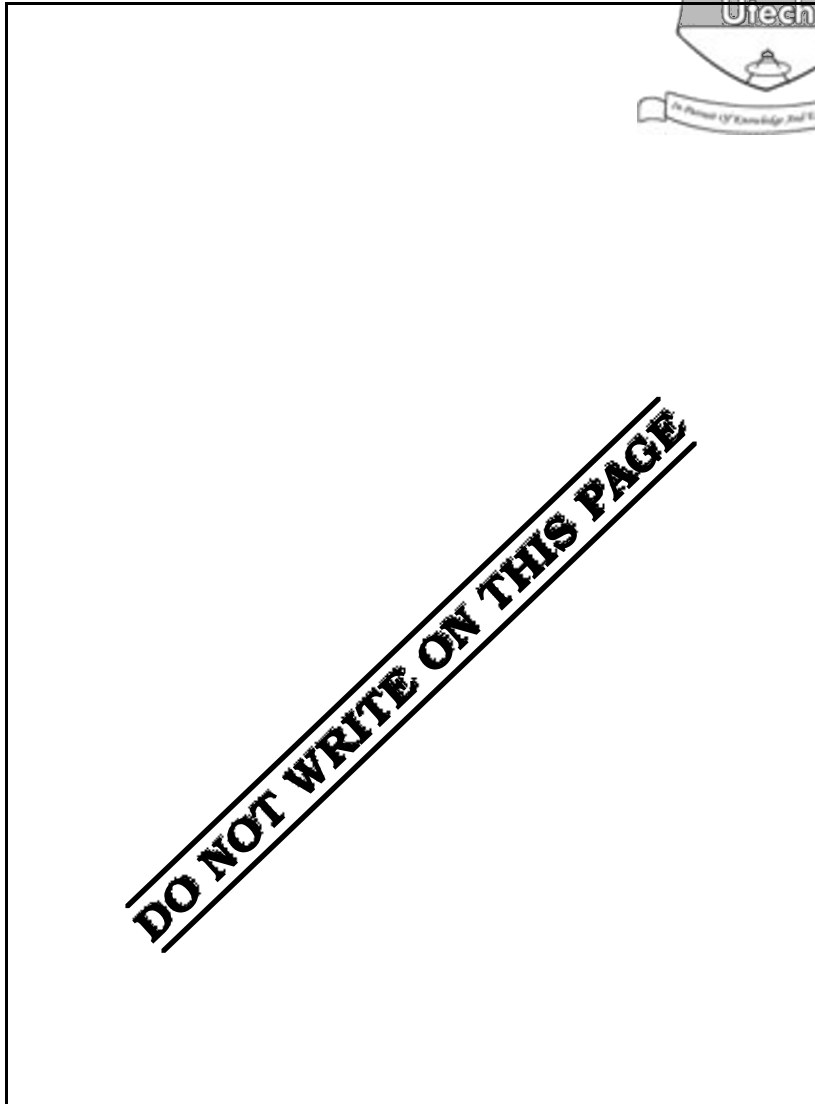
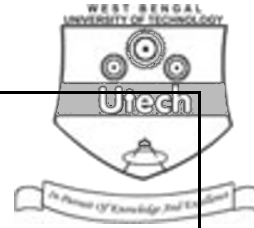
Group – B

Group – C

Question Number																Total Marks	Examiner's Signature	
Marks Obtained																		

.....
Head-Examiner / Co-Ordinator / Scrutineer

2287 (09/06)



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ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009

ANATOMY (OCULAR)
SEMESTER - 2



Time : 3 Hours]

[Full Marks : 70

GROUP - A

(Multiple Choice Type Questions)

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

i) The refractive index of the lens is

a) 1.99

b) 16

c) 1.39

d) 2.

ii) Volume of vitreous humor is

a) 10 ml

b) 20 ml

c) 4 ml

d) 9 ml.

iii) Glands of Moll are

a) modified sebaceous gland

b) sebaceous gland

c) modified sweat gland

d) none of these.

iv) Normal depth of anterior chamber is

a) 1 mm

b) 2.5 mm

c) 4 mm

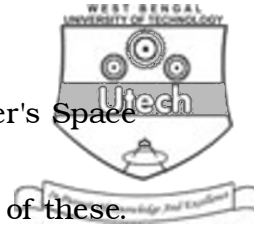
d) 5 mm.

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v) Patellar Fossa is also known as

- a) Wieger's Space
- b) Berger's Space
- c) Space of Goldmann
- d) None of these.



vi) The length of inferior oblique muscle is

- a) 60 mm
- b) 37 mm
- c) 45 mm
- d) 10 mm.

vii) The yellowish colouration of the macula lutea is due to

- a) Xanthophyll
- b) Chlorophyll
- c) Melanin
- d) None of these.

viii) The weight of the eyeball is

- a) 6.5 gm
- b) 7 gm
- c) 7.5 gm
- d) 6 gm.

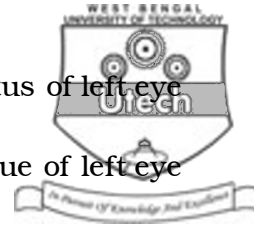
ix) The orbicularis oculi muscle is supplied by

- a) oculomotor nerve
- b) optic nerve
- c) facial nerve
- d) trigeminal nerve.



5

- x) In saevo elevation of eye, muscles acting are
- a) superior oblique of right eye & superior rectus of left eye
 - b) superior rectus of right eye & superior oblique of left eye
 - c) superior rectus of right eye & inferior oblique of left eye
 - d) inferior oblique of right eye & superior rectus of left eye.



xi) Optic cup is formed at which gestational week ?

- a) Second
- b) Third
- c) Fourth
- d) Fifth.

GROUP – B

(Short Answer Type Questions)

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

3 × 5 = 15

2. Vitreous Base.
3. Labelled diagram of the superior orbital fissure.
4. Embryological development of the crystalline lens.
5. Vortex veins.
6. Nerve supply of the cornea.

GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.

3 × 15 = 45

7. What is lacrimal apparatus ? Where is the Lacrimal Sac located ? Draw a labeled diagram of the lacrimal excretory system and describe it. 2 + 2 + 5 + 6
8. Write in brief about the origin/nucleus, course and distribution and clinically applied aspects of Trochlear Nerve. 2 + 5 + 3 + 5

2287 (09/06)



9. Describe attachments of different extraocular muscles with their actions in details with schematic diagrams. 5 + 5 + 5
10. What are the different parts of optic nerve ? Describe briefly the intraocular part (optic nerve head) with a suitable diagram. 2 + 7 + 6
11. Describe the histological structure of the cornea with a labelled diagram. How does the cornea maintain its transparency ? Give both the anatomical and the physiological factors. 7 + 4 + 4

END