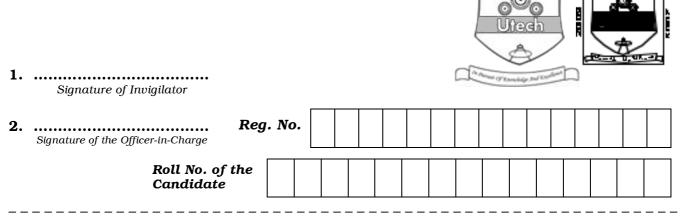
CLINICAL REFRACTION – I (SEMESTER - 4)

CS/B.OPTM/SEM-4/BO-403/09



CS/B.OPTM/SEM-4/BO-403/09 ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE – 2009 CLINICAL REFRACTION – I (SEMESTER - 4)

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.
- 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.

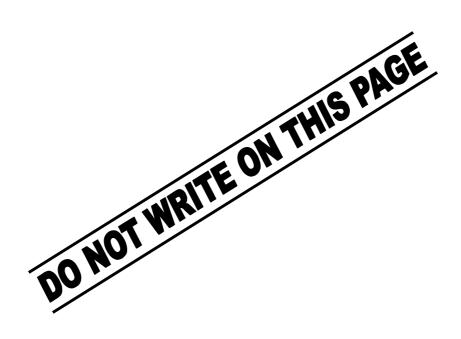
No additional sheets are to be used and no loose paper will be provided

FOR OFFICE USE / EVALUATION ONLY Marks Obtained Group - A Group - B Group - C Question Number Marks Obtained Obtained

Head-Examiner/Co-Ordinator/Scrutineer







1.



Full Marks: 70

ENGINEERING & MANAGEMENT EXAMINATIONS, JUNE - 2009 CLINICAL REFRACTION - I SEMESTER - 4

Time: 3 Hours]

GROUP - A

(Multiple Choice Type Questions)

Cho	Choose the correct alternatives for any ten of the following:						
i)	On the log MAR chart the 6/60 has a log MAR value of						
	a)	1.0	b)	0.8			
	c)	0.7	d)	none of these.			
ii)	The principle of the Stenopaic slit test is based on						
	a)	Astigmatic fan	b)	Pinhole phenomenon			
	c)	Sturm's conoid	d)	none of these.			
iii)	In compound hypermetropic astigmatism						
	a) both foci are in front of the retina						
	b) both foci are behind the retina						
	c) one focus is in front of retina and the other behind						
	d)	d) one focus is on the retina and the other behind.					
iv)	Temporal crescent is typically seen in						
	a)	astigmatism	b)	hypermetropia			
	c)	both of these	d)	none of these.			
v)	Shot silk retina is present in						
	a)	myopia	b)	hypermetropia			
	c)	astigmatism	d)	none of these.			



vi)	Cont	Contraindication for use of cycloplegic eyedrops is						
	a)	paediatric patients		Utech				
	b)	young hyperopes						
	c)	glaucoma patients		(N'Executing 2nd Executing				
	d)	patients having spasm of accommodation.						
vii)	The r	The radical retinoscopy is useful objective technique in						
	a)	aphakic patient	b)	glaucoma patient				
	c)	low vision patient	d)	amblyopic patient.				
viii)	The technique of binocular balance, where 3 PD BD in front of right eye a							
	3 PD BU in front of left eye is called							
	a)	Dissociated duochrome balance						
	b)	Prism dissociation						
	c)	Turville infinity balance						
	d)	none of these.						
ix)	A dim and unfocused retinal image may form where the diameter of the pinho							
	disc is							
	a)	less than 1 mm	b)	less than 1.5 mm				
	c)	less than 2 mm	d)	less than 1·32 mm.				
x)	The	drugs which are responsible	for par	ralysis of the parasympatheti	c nerve			
	ending are called							
	a)	miotic drugs	b)	anti-cholinesterases				
	c)	parasympathomimetic drugs	d)	parasympatholytic drugs.				
xi)	The duochrome test is based on the principle of							
	a)	optical aberration	b)	chromatic aberration				
	c)	defocus aberration	d)	spherical aberration.				



GROUP - B

(Short Answer Type Questions)

Write short notes on any three of the following

 $3 \times 5 = 15$

- 2. Sudden unfogging
- 3. Prism dissociated blur balance
- 4. Vertex distance
- 5. Jackson cross cylinder
- 6. Minimum angle of resolution
- 7. Turnville infinity balance test.

GROUP - C

(Long Answer Type Questions)

Answer any *three* of the following questions.

 $3 \times 15 = 45$

- Discuss briefly the various methods of determining the astigmatism present in a person.
- 9. a) What are the various visual acuity charts used for recording vision. Name them.
 - b) Which chart is the most standardized and why?
 - c) How will you record the vision of a child only eight months old.

5 + 5 + 5

- 10. What are static retinoscopy and dynamic retinoscopy. Explain Bell's and Nott's method of retinoscopy. 5 + 5 + 5
- 11. a) What is presbyopia?
 - b) How can you measure amplitude of accommodation?
 - c) What are the important points to be considered while prescribing near addition to a presbyope, getting his first bifocal glasses. 2 + 3 + 10

END