Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGINEERING - SEMESTER–VI • EXAMINATION – SUMMER 2013

Subject Code: 2360308/360308 **Date: 20-05-2013**

Subject Name: Opthalmic Instrumentation

Time: 10:30 am - 01:00 pm **Total Marks: 70**

Instructions:

1. **Attempt all questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**
4. **English version is considered to be Authentic.**

Q.1	(a)	Define Opthalmic Instrumentation. Enlist different Opthalmic instruments with their purpose.	**07**
	(b)	Draw and explain anatomical structure of an eye.	**07**
Q.2			
	(a)	Define Refractive Error. Explain refractive anomalies.	**07**
	(b)	Draw and explain path of an Optic Nerve.	**07**
		OR	
	(b)	Define Refraction. Explain laws of Refraction.	**07**
Q.3			
	(a)	Explain Indirect Opthalmoscopy with its diagram.	**07**
	(b)	Describe basic principle of retinoscope. Explain projection system of retinoscope.	**07**
		OR	
Q.3	(a)	Explain Optical Fibres in detail.	**07**
	(b)	Define Refractometer. Enlist its components with their functions.	**07**
Q.4			
	(a)	Explain Slit lamp with its different parts.	**07**
	(b)	Define Tonometry. Explain applanation tonometry.	**07**
		OR	
Q. 4	(a)	What is Fundus camera? Explain its optical system.	**07**
	(b)	Explain basic principle of Keratometer and explain its optical system in detail.	**07**
Q.5			
	(a)	Explain the causes of blindness.	**07**
	(b)	Define Glaucoma. Explain its types.	**07**
		OR	
Q.5			
	(a)	Enlist and explain different eye diseases.	**07**
	(b)	Define conjunctivitis. Explain its classification.	**07**

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