

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING - SEMESTER-VI • EXAMINATION – SUMMER 2013

Subject Code: 2360308/360308

Date: 20-05-2013

Subject Name: Ophthalmic 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.

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|------|-----|------------------------------------------------------------------------------------------------|-----------|
| Q.1 | (a) | Define Ophthalmic Instrumentation. Enlist different Ophthalmic 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 Ophthalmoscopy 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 |
