GUJARAT TECHNOLOGICAL UNIVERSITY

BE-SEMESTER-I & II(NEW)EXAMINATION - SUMMER 2022

Subject Code:3110013 Date:10-08-2022 Subject Name:Engineering Graphics & Design

Time: 10:30 AM TO 01:30 PM

Total Marks:70

Definitely:

- Attempt all questions.
- Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- Simple and non-programmable scientific calculators are allowed.

Q.1 (a) Explain Representative Fraction. Construct a plain scale of R.F. = 1:50 to show meters and decimeters and long enough to measure 8 meters. Indicate 5.7 m distance on it.

- (b) Find the locus of a point P, moving in a plane, keeping its distances equal from two non-parallel fixed straight lines O₁O₂ and O₁O₃.
- (c) Crank OA rotates about 'O'. (Slide along 'OC', rod BD is fixed to connecting rod AC). Draw locus of point 'D' for one complete rotation of crank OA. (Refer figure 1)
- Q.2 (a) Construct a diagonal scale of RF = 1/4000 to show 374 meters and long on enough to measure up to 500 meters.
 - (b) The distance between Delhi and Agra is 200 km. In a railway map it is represented by a line 5 cm long. Find it's R.F. Draw a diagonal scale to show single km. And maximum 600 km. Indicate on it the distance of 322 km.
 - (c) The foci of an ellipse are 110 mm apart. The minor axis is 70 mm long. 07 Determine the length of major axis and draw half ellipse by rectangle method and other half by concentric circle method.

OR

- (c) A circle of 50 mm diameter rolls on the circumference of another circle of 150 mm diameter and outside it. Draw the locus of the point P on the circumference of the rolling circle for one complete revolution of it. Take initial position of point P at the contact point between two circles. Name the curve.
- Q.3 (a) Draw a cycloid for a rolling circle of 60 mm diameter rolling along a ostraight line without slipping. Take initial position of the tracing point at the bottom of the vertical centre line of the rolling circle.
 - (b) Define the following terminology with respect to conics and also show them in a diagram:
 (i) Focus, (ii) Directrix, (iii) Axis, (iv) Vertex

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Karin Nielsen-Saines

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Table of Contents 33409last Year Paper For Gtu

- 1. Understanding the eBook 33409last Year Paper For Gtu
 - The Rise of Digital Reading 33409last Year Paper For Gtu
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 33409last Year Paper For Gtu
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - $\circ\,$ Features to Look for in an 33409last Year Paper For Gtu
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 33409last Year Paper For Gtu
 - Personalized Recommendations
 - 33409last Year Paper For Gtu User Reviews and Ratings
 - 33409last Year Paper For Gtu and Bestseller Lists
- 5. Accessing 33409last Year Paper For Gtu Free and Paid eBooks
 - 33409last Year Paper For Gtu Public Domain eBooks

- 33409last Year Paper For Gtu eBook Subscription Services
- o 33409last Year Paper For Gtu Budget-Friendly Options
- 6. Navigating 33409last Year Paper For Gtu eBook Formats
 - ePub, PDF, MOBI, and More
 - 33409last Year Paper For Gtu Compatibility with Devices
 - o 33409last Year Paper For Gtu Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 33409last Year Paper For Gtu
 - Highlighting and Note-Taking 33409last Year Paper For Gtu
 - Interactive Elements 33409last Year Paper For Gtu
- 8. Staying Engaged with 33409last Year Paper For Gtu
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 33409last Year Paper For Gtu
- 9. Balancing eBooks and Physical Books 33409last Year Paper For Gtu
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection 33409last Year Paper For Gtu
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 33409last Year Paper For Gtu
 - Setting Reading Goals 33409last Year Paper For Gtu
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 33409last Year Paper For Gtu
 - Fact-Checking eBook Content of 33409last Year Paper For Gtu
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks

- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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