#### University of Engineering & Technology, Taxila

#### Mechanical Engineering Department

Engineering Drawing & Graphics (ME-111)

Mid Semester Exams

Max. Marks: 30

Time Allowed: 90 Minutes

Note: Draw neat and clean geometries. Also write Steps of Construction

# Question 1:v

as not not be

The major axis of an ellipse is 150 mm long and minor exis is 100 mm long. Find the foci and draw the ellipse by "Arcs" of Circles" Method.

A circle of 50mm diameter rolls on the circumference of another circle of 175mm diameter, inside it. Trace the locus of a point 'P' on the circumference of the rolling circle for one complete revolution. Name the curve.

# Question 3:

a) A point 'A' is situated in 1st Quadrant. Its shortest distance from the intersection point of H.P., V.P., and auxiliary plane is 60 mm and it s equidistant from the principal planes. Draw projections of the point and determine its distance from the principal planes.

b) Differentiate between First Angle Projection Method and Third Angle Projection Method.

Also differentiate by graphical symbols.

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Zhe Xu

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- 1. Understanding the eBook Mechanical Engineering Past Papers
  - The Rise of Digital Reading Mechanical Engineering Past Papers
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mechanical Engineering Past Papers
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mechanical Engineering Past Papers
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mechanical Engineering Past Papers
  - Personalized Recommendations

- Mechanical Engineering Past Papers User Reviews and Ratings
- Mechanical Engineering Past Papers and Bestseller Lists
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  - Mechanical Engineering Past Papers Public Domain eBooks
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  - Mechanical Engineering Past Papers Budget-Friendly Options
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  - Mechanical Engineering Past Papers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
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  - Highlighting and Note-Taking Mechanical Engineering Past Papers
  - Interactive Elements Mechanical Engineering Past Papers
- 8. Staying Engaged with Mechanical Engineering Past Papers
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mechanical Engineering Past Papers
- 9. Balancing eBooks and Physical Books Mechanical Engineering Past Papers
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mechanical Engineering Past Papers
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mechanical Engineering Past Papers
  - Setting Reading Goals Mechanical Engineering Past Papers
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mechanical Engineering Past Papers
  - Fact-Checking eBook Content of Mechanical Engineering Past Papers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
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