



Introduction to Engineering Graphics

Q1. Define Engineering Drawing. Why Drawing is called the Universal Language of Engineers?

Answer :

- Engineering drawing is a graphical language of an engineer to convey one's ideas most effectively, easily, conveniently and with high speed.
- So Engineering drawing is a starting point of all engineering branches such as Mechanical, Production, Civil, Electrical, Electronics, Computer science, Chemical etc.
- It is spoken, read, and written in its own way. Engineering drawing has its own grammar in terms of projections, conventional representations, types of lines, abbreviations, symbols and various geometric constructions.

Q2. Name Different Drawing Instruments?

Ans –Drawing board, drawing sheet, mini-drafter, scale, pencil and sandpaper block, cello-tape, eraser and compass

Q3. What are Different Types of Scales?

Ans- Different styles of scales are:

- Plain scale: In which, one can measure certain units and their one-tenth value. For example, a scale in cm and mm is a plain scale, and dm is another plain scale.
- Diagonal scale: In which one can measure certain units, its one-tenth value as well as its one-hundredth value. For example, a scale in m, dm and cm is a diagonal scale, dm, and cm and mm is another diagonal scale.
- Comparative or Corresponding scale: These are two different scales having the same R.F. but different units. These can be placed side by side or placed over one and another. For example in miles and kilometres.
 - These scales can be plain scales or diagonal scales.
- Vernier scale: It is a scale that is extremely accurate for measurement. It uses a Vernier calliper. Vernier calliper is an instrument to measure a dimension very precisely. Normally its least count is 1/100 of the scale unit. Say a scale is in cm, then a Vernier can measure very accurately up to 1/100 of a cm.

Q4. What are Applications Of Scales?

Ans-Scales can be used for the following purposes:

- To draw an object on a full, reduced and enlarged scale.
- To measure distances.
- To mark dimensions on the drawing

Q5. What Are The Requirements For The Construction Of A Scale?

Answer : (i) Maximum distance to be measured

(ii) R.F. (representative fraction) of the scale

Units of scale i.e. mm, cm, m, km

Q6. Name The Different Types Of Line Use In Engg. Drawing?

1. Ans- 0.2 Mm Medium- Outlines, Dotted Lines, Cutting Plane Lines
2. 0.1 Mm Thin – Centre Lines, Section Lines, Dimension Lines, Extension Lines, Construction Lines, Leader Lines, Short Break Lines And Long Break Lines.

Q7. What Are Standard Specifications Of Drawing Sheets And Pencils?

Ans- A0, A1, A2, A3, A4

H, 2H, 3H, 4H etc

B, 2B, 3B, 4B etc

Q8.What do you Mean by R.F.? What is The Unit of R.F.?

Ans: – The Ratio of length of the drawing to the actual length of the object is called The Representative Fraction (R.F).

$R.F. = \text{Drawing Length} / \text{Actual Length}$

R.F is unitless.

Viva Questions On Engineering Drawing

Rachel Sandford



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Table of Contents Viva Questions On Engineering Drawing

1. Understanding the eBook Viva Questions On Engineering Drawing
 - The Rise of Digital Reading Viva Questions On Engineering Drawing
 - Advantages of eBooks Over Traditional Books
2. Identifying Viva Questions On Engineering Drawing
 - 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 Viva Questions On Engineering Drawing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Viva Questions On Engineering Drawing
 - Personalized Recommendations
 - Viva Questions On Engineering Drawing User Reviews and Ratings
 - Viva Questions On Engineering Drawing and Bestseller Lists
5. Accessing Viva Questions On Engineering Drawing Free and Paid eBooks

- Viva Questions On Engineering Drawing Public Domain eBooks
- Viva Questions On Engineering Drawing eBook Subscription Services
- Viva Questions On Engineering Drawing Budget-Friendly Options
- 6. Navigating Viva Questions On Engineering Drawing eBook Formats
 - ePub, PDF, MOBI, and More
 - Viva Questions On Engineering Drawing Compatibility with Devices
 - Viva Questions On Engineering Drawing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Viva Questions On Engineering Drawing
 - Highlighting and Note-Taking Viva Questions On Engineering Drawing
 - Interactive Elements Viva Questions On Engineering Drawing
- 8. Staying Engaged with Viva Questions On Engineering Drawing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Viva Questions On Engineering Drawing
- 9. Balancing eBooks and Physical Books Viva Questions On Engineering Drawing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Viva Questions On Engineering Drawing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Viva Questions On Engineering Drawing
 - Setting Reading Goals Viva Questions On Engineering Drawing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Viva Questions On Engineering Drawing
 - Fact-Checking eBook Content of Viva Questions On Engineering Drawing
 - 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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