

### Assignment 1

1. Why Engineering drawing is called as Universal language of Engineers?
2. What is use of Engineering graphics in your branch?
3. What is first angle projection? Explain using object source and screen.
4. What is third angle projection? Explain using quadrant and horizontal & vertical plane.
5. Draw symbols for first and third angle projection.
6. What is Representative factor? Discuss enlarging or reducing scale with example?
7. What are the elements present in title block?
8. Which size sheet you used for drawing. Mention name and dimension.
9. What is position of front view, top view, right side view and left side view in first and third angle projection?
10. Define transparent and opaque plane in first and third quadrant.
11. Why projection is not possible in 2<sup>nd</sup> and 4<sup>th</sup> quadrant?
12. What are different types of pencil? Mention relation between hardness and darkness of pencil. Mention pencil you have used in drawing for different work.
13. Which pencil is used for
  - I. Construction lines
  - II. Hidden lines
  - III. Edge lines
  - IV. Hatching/sectioning line
  - V. Dimensioning
  - VI. Centre line
  - VII. Extension line
  - VIII. Leader line
14. What is ratio of arrow head?
15. What is trace of line and trace of plane?
16. What are different types of dimensioning on the basis of representation?
17. What are different types of dimensioning on the basis of alignment?
18. What are different types of line? Show representation for different lines with use. Mention atleast 7.
19. What is difference between plan and elevation?
20. What is full form for BIS and ANSI?
21. What is auxillary plane?
22. What is an orthographic projection?
23. What are some instruments in Engineering drawing? Mention minimum 10.
24. How many types of scale in Engineering drawing?
25. What is the difference between plain and diagonal scale?
26. Which scale is used to measure angles?
27. Which scale is having same representative factor?
28. Which line is not part of final drawing?
29. What is the difference between orthographic and isometric projection?
30. What is least count?