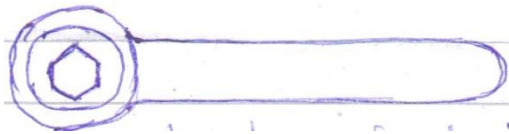


## Assignment 1

### TRADE THEORY

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1. What is mean by Fitter? How many kinds of Fitter? What is work of Bench Fitter?
2. What is accident? How many causes for accident and whom?
3. How many safety rules? Describe briefly in short.
4. Describe the benefits of the 5 "S" System.
5. What is PPES? Describe details.
6. What will be the effect of electric shock when the current is at very low level?
7. What is artificial respiration?
8. How many materials are kept in the First Aid Box and whom?
9. What is First Aid?
10. How many causes to catch the fire in the workshop? Describe.
11. How many types of measuring system? Describe in details.
12. How many types of hammer? Describe them.
13. What is Vice? How many type of Vice are there? What is difference between Bench Vice and Machine Vice?
14. What is spanner and Name the spanner with diagram of all kind of spanners?
15. What do you know about Allen key?
16. How many type of screw driver found in the work shop. Describe the role of offset screw driver.
- 17.



What is this? And what is its role in the Industry?

18. To convert  $\frac{11}{32}$  inch in MM.
19. Write details of length measuring Instruments.
20. What is Shrink Rule and where are its uses?
21. What is Try Square? Describe it with diagram.
22. What is the method of checking the accuracy of Try Square?
23. How many types of comparing Instruments? Describe full.
24. What is Layout?
25. Write the short note marking media and marking tools.
26. Odd man out –
  - (a) Marking Table, Surface Plate, v Block and Four Jaw chuck.
  - (b) Black Board, Chalk, Copper, Sulphate, Layout die marking.
  - (c) Punch, Jenny, Calliper, Trammel, and divider.
  - (d) V Block, Parallel Block, magnetic Block, Marking Block.
27. Fill in the blanks –
  - (a) Scribe is made from \_\_\_\_\_.
  - (b) The angle of try square is \_\_\_\_\_.
  - (c) Marking block is a \_\_\_\_\_ Tool.
  - (d) Steel rule is a \_\_\_\_\_ Tool.
28. What is difference between Marking block & Centre punch?
29. Why the surface plate made from cast Iron?
30. Choose the correct angle of Dot punch – 90°, 60°, 30°.

## Assignment 1

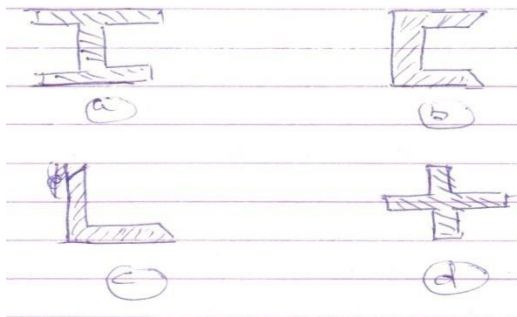
31. What is the importance of fitter in technical field?
  32. How many types of fitter?
  33. What are the safety precautions to be observed by the fitter while doing work?
  34. What is the main function of bench-fitter?
  35. What are the types of work to be carried out by PIPE-FITTER?
  36. What is the importance of maintenance fitter?
  37. What are the reasons for an accident in Work-shop?
  38. What are the general safety precautions to be observed during working?
  39. What are the causes of fire in any Industry? How it can be avoided?
  40. What do you understand by self safety and other types of safety?
  41. How many types of fire? Write names.
  42. What type of fire-extinguisher is used in oil fire?
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## Assignment 1

### ENGINEERING DRAWING

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1. What is Engineering Drawing?
2. Write short notes on-with appropriate diagram.
  - (a) Drawing Board
  - (b) "T" square
  - (c) Mini Drafter
  - (d) Set Square
  - (e) Drawing Instruments Box
  - (f) Compass
  - (g) Divider
3. What is the work of proteefor, French curve?
4. Draw a diagram of drafting Template.
5. What you know about –  
Drawing Pin, Clips, Cello tape, Tracing paper.
6. How many drawing sheets Recommended by Burear of Indian Standards (BIS)? Give details.
7. Write down the Thickness Based Classification of lines.
8. Write about Hiddle line, Centre line and Dimension line.
9. Draw the conventional representations of different materials  
Heavy metals- Cost iron etc.  
Light metal- Zink, Tin.  
Packing and Insulating materials.  
Wood, Plywood, Earth rubber etc.  
Water, Oil, Petrol.
10. Name the sectional view –



11. Write down the Sectional Representation.  
Square Butt, Single V Butt, Double V Butt, Single U Butt, Double U Butt, Stud.
12. Where used of H and 2H Pencil?
13. How many kind of Pencil lead? Name of them.
14. Describe –  
Point line, Straight line, Curved line, Angle.
15. Give definition and draw the following diagram-  
Right Angle, Acute Angle, Obtuse Angle, Straight Angle.
16. Draw the following diagram –  
Obtuse Angle Triangle, Right Angle Triangle, Acute Angle Triangle, Equilateral Triangle.

## Assignment 1

17. What is quadrilateral, Parallelogram?
  18. What is difference between  
Rectangle and Square.  
Draw a diagram of rectangle and Square.
  19. What is circle, centre of circle, Radius, Diameter, Circumference?
  20. Draw an Arc and Cord in any dimension.
  21. Draw a circle which radius is 4cm.
  22. Draw a circle which arm is 50mm.
  23. Draw a perpendicular on a line which Base is 60mm and perpendicular line is 40mm.
  24. Draw a curved line which length is 80mm.
  25. Draw a free hand sketch of Hexagonal.
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## Assignment 1

### WORKSHOP CALCULATION AND SCIENCE

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1. What are units? Write the classification of units.
  2. The temperature of water is  $70^{\circ}\text{C}$ . Express the temperature in Kelvin and reamer.
  3. If a van covers 100m in 4 s, then how many kilometres will it run in 1 h?
  4. Convert 20 lb into kilogram.
  5. Convert 600 kilo watt (KW) in to Mega watt(MW)
  6. If  $\sqrt{75.24 + x} = 8.71$  then find  $x$
  7.  $\sqrt{\frac{0.00001225}{0.00005329}}$  is equal to?
  8. Find Cube root of 10648?
  9. If A:B = 6:7, B:C = 4:5 find A:B:C
  10. What will be the density ( $\rho$ ) of iron cube, if mass (m) of metal = 5kg, volume (v) =  $685\text{cm}^3$ ?
  11. Calculate the perimeter of a triangle whose side are 20 cm, 18 cm and 10 cm?
  12. Find the area of the right angled triangle whose base is 20 cm and height 8 cm?
  13. Find the perimeter of a semi- circle whose radius is 14 cm (take  $\pi=22/7$ ).
  14. Find the value of  $\sqrt{10} \times \sqrt{30}$
  15. Find the value of  $\frac{10}{\sqrt{2}} + \frac{8}{\sqrt{2}}$
  16. Find the value of  $x$ , if  $\frac{x+1}{2} - \frac{x+2}{5} = \frac{x-1}{2}$
  17. The product of two numbers is  $-96$  but their sum is 4, then find the numbers
  18. If  $\frac{8}{7}$  of a number is 48, then find the number.
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