TRADE THEORY

Chapter 1

Occupation Safety & Health

1. Define Safety? Illustrate way to be safe while working with electricity?
2. When a person gets electric shock, what are the Do's and Don'ts and what first Aid you will give?
3. What are various causes of fire on Electrical equipments? Explain precautions to be taken against outbreak of fire and measures inputting than out?

Chapter 2

Tools for Electrician

1. What is a Tester? Explain its parts and how to use a Tester?
2. How many types of pliers are? Explain their work and constructions?
3. How many types of portable drilling machines are there? Explain all types of drilling machines?

Chapter 3

Basic Electricity

1. What are laws of atomic structure?
2. Explain the direction and flow of Electric current.
3. What are the effects of electric current? Explain all.

ENGINEERING DRAWING

1. What is Engineering Drawing? Write purposes of studying Engineering drawing.
2. Write details about set square?
3. What is mini drafter? Write uses of mini drafter in details.
4. Write differences of first angle projection and third angle projection.
5. Write **India is Great** in 45mm height and 7:4 ratios.

WORKSHOP CALCULATION AND SCIENCE

1. What are units? Write the classification of units.
2. The temperature of water is 70^0 C. Express the temperature in Kelvin and reaumer.
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. $\sqrt{\dfrac{0.00001225}{0.00005329}}$ 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 (ρ) of iron cube, if mass (m) of metal = 5kg, volume (v) = 685cm^2?
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 π=22/7).
14. Find the value of $\sqrt{10}$ x $\sqrt{30}$
15. Find the value of $\dfrac{10}{\sqrt{2}} + \dfrac{8}{\sqrt{2}}$
16. Find the value of x, if $\dfrac{x+1}{2} - \dfrac{x+2}{5} = \dfrac{x-1}{2}$
17. The product of two numbers is – 96 but their sum is 4, then find the numbers
18. If $\dfrac{8}{7}$ of a number is 48, then find the number.