

chapter: 1

1. Write short note on basic system of hydraulic
2. Write short note on electrical elements used in hydraulic system
3. What is the application of pneumatic system? list out basic components.

Chapter: 2

1. List out properties of hydraulic oil and explain function of filters
2. Classify hydraulic oil and explain any one type.
3. Write short note on synthetic oil and biodegradable oil
- 4. Write short note on filter types and locations.**

Chapter: 3

1. Write short note on 1) screw type 2) Axial piston 3) radial piston types pump
2. Explain single acting and double acting cylinders
3. Write short note on hydrostatic transmission system (most imp)
4. Explain any three types of pressure control valve
5. Explain non return valve and its application in diagram form
6. Write short note on accumulators

Chapter: 4

1. Explain lubricator with neat sketch used in FRL unit
2. List the types of compressor explain any two
3. Explain pressure regulator with sketch

Chapter: 5

1. List the control valve and explain time delay & twin pressure valve
2. Write short note on shuttle

Chapter: 6

1. Develop and explain circuit for controlling single acting and double acting hydraulic cylinder
2. Develop and explain pneumatic circuit for single acting and double acting cylinder
3. Write short note on cascade method or sequencing
4. Develop and explain speed control of double acting cylinder

Chapter: 7

1. Write short note on automation state its advantages and disadvantages
2. List the general component used in circuit diagrams