

Question Bank - Uni Test 1

Course : IHP Course Code- 22655 Class : ME6I

Name of subject: Industrial Hydraulics and Pneumatics

Chapter 1

2Marks Question(CO1)

- 1) Draw general layout of hydraulic system representing various part. (CO1)
- 2) State four limitations of hydraulic system (CO1)
- 3) List four applications of Hydraulics (CO1)
- 4) List various properties of oil used in hydraulic circuit (CO1)
- 5) Define a) Demulsibility b) Lubricity (CO1)
- 6) What is meaning of SAE10W. (CO1)
- 7) Draw Symbol of a) 3/2 D.C valve b) Bi-directional variable displacement hydraulic motor. (CO1)

4Marks Question

- 8) State any four safety precautions to be followed in hydraulic system. (CO1)
- 9) Compare Hydraulic system with Pneumatic system. (CO1)

Chapter 2

2 Marks Question

- 10) Draw balance vane pump (CO2)
- 11) Sketch Gerotor pump (CO2)
- 12) Classify Hydraulic actuators (CO2)
- 13) List Different types of cylinder mountings. (CO2)
- 14) Draw Clevis mounting. (CO2)

4 Marks Question

- 15) Compare air motor with electrical and hydraulic motor. (CO2)
- 16) Describe Radial Piston motor. (CO2)

- 17) Draw and explain working of Telescopic cylinder. (CO2)
- 18) List any four positive displacement pumps with their pressure and flow rate. (CO2)
- 19) Differentiate between positive displacement pump and rotodynamic pump (CO2)

Chapter 3

2 Marks Question

- 20) Give Classification of Control Valves. (CO3)
- 21) Draw rotary spool DCV (CO3)
- 22) Draw sequence valve with neat sketch (CO3)
- 23) What is use of counterbalance valve. (CO3)
- 24) Draw 4/2 D.C Valve. (CO3)

4 Marks Question

- 25) Explain with neat sketch pilot operated pressure relief valve. (CO3)
- 26) Explain pressure compensated flow control valve with neat sketch (CO3)
- 27) Explain with neat sketch construction of pilot operated check valve (CO3)