

Question Bank (G-scheme)

Name of subject: Industrial Fluid Power

Unit Test: I

Subject code: 17608

Course: ME6G

Semester: VI

chap 1 Basics of oil Hydraulic Systems Marks (24)

Marks

- 1) Draw general layout of hydraulic system representing various part . (3)
- 2) state the merits and limitations of hydraulic system (4)
- 3) list four field of applications of fluid power (3)
- 4) list various properties of oil used in hydraulic circuit (4)
- 5) Differentiate between positive displacement pump and hydrodynamic pump (4)
- 6) Sketch and explain gerotor pump (4)
- 7) What is function of filter in hydraulic circuit (3M)
- 8) Draw the neat sketch of external gear pump and explain construction and working (4)
- 9) What is meant by positive displacement pump .list its 4 advantages (4)
- 10) Classify the vane pumps and explain balance vane pump (4)
- 11) explain construction and working of swash plate axial piston pump (4)

chap 2 Hydraulic valves, Actuators & Accessories Marks (24)

- 1) Explain rotary spool DCV with neat sketch (3)
- 2) Explain working of sequence valve with neat sketch (4)
- 3) How seals are classified explain any one type with neat sketch(4)
- 4) Sketch and label actual construction of double acting cylinder (3)
- 5) Explain working of telescopic cylinder(4)
- 6) Classify hydraulic seals and state the function of seals (4)
- 7) What is the hose? Explain the factor affecting selection of pipe in hydraulic system (4)

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- 8) Why accumulator are used in hydraulic circuit? explain any one type of accumulator with sketch(4)
- 9) Explain with neat sketch quick exhaust valves (3)
- 10) State any four reasons of failure of hydraulic seals (3)
- 11) Explain pressure compensated flow control valve with neat sketch (4)
- 12) Explain with neat sketch construction of pilot operated check valve(4)
- 13) How good piping system is design? state their tips(3)
- 14) Give the function hydraulic seals? differentiate between static seals and dynamic seals(4)
- 15) Give detail classification of hydraulic actuator (3)
- 16) Sketch 2 position of 4/2 rotary spool type DCV AND explain in brief(4)

chap 3 Oil Hydraulic Circuits Marks (12)

- 1) Draw and explain meter in circuit(4)
- 2) Draw and explain meter out circuit (4)
- 3) Draw and explain bleed off circuit(4)