

Ganesh college of Engineering

Model Exam- I

ME3492 -Hydraulic & pneumatic

Mark : 100

Time : 3hrs

Part - A (10x2=20)

1. Distinguish between hydraulic and pneumatic power sources with respect to payload, accuracy, speed control and maintenance.
2. A Van of 16,000 N is to be lifted using a hydraulic lift as assume figure. Determine the force required to lift the van if areas $A_1=0.005 \text{ m}^2$ $A_2=0.4 \text{ m}^2$.
3. "Pressure relief valve is essential in all hydraulic systems"-Justify.
4. Sketch the ISO symbols of the following fluid elements: a)Shuttle valve, b)Double rod end cylinder.
5. List any four advantages of air-over oil systems.
6. A hydraulic platform used to lift cars requires synchronous motion of two hydraulic cylinders. Sketch a circuit for synchronous movement of the two hydraulic cylinders.
7. Develop ladder logic diagrams illustrating 'OR' logic and 'NOT' logic.
8. What are the fluids? State its significance in logic circuits.
9. State the importance of proper troubleshooting of hydraulic systems.
10. Why are pneumatic systems preferred for tool handling in machine tools?

Part - B (5x16=80)

11. (a). (i) With a neat sketch, explain the working principle of a swash plate axial piston pump and mention how the displacement can be varied.
(ii) Explain any five desirable properties of hydraulic fluids.
(OR)
(b). Difference between positive and Non-positive displacement pumps.
12. (a). (i) Illustrate the working of a sequencing valve.
(ii) Explain the working of a proportional pressure relief valve.
(OR)
(b). (i) With a neat sketch, brief on cushioning in hydraulic cylinders.
(ii) With the aid of neat sketches, describe meter-in and meter-out hydraulic circuits and state their significance.

Hydraulic And Pneumatic Study Guide

Yan Bai



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