

**DEPARTMENT OF MECHANICAL ENGINEERING
QUESTION BANK**

**Sub. Code/Name: ME1305 Applied Hydraulics and Pneumatics
Year/Sem: III/V**

**UNIT-1
FLUID POWER SYSTEMS AND FUNDAMENTALS**

PART-A (2 Marks)

1. Define fluid power?
2. List the advantages and disadvantages of fluid power system?
3. Compare hydraulic and pneumatic system?
4. Define Pascal's -Law
5. Give the standard graphical symbol for FRL unit?
6. Define viscosity and bulk modulus of a hydraulic fluid?
7. List any four application of fluid power system.
8. Define Hydraulics.
9. What do you mean by non-positive displacement pump?
10. Name any four draw backs of fluid power system
11. Give the graphical symbol for pressure reducing valve?
12. What are the major components of a hydraulic system?
13. What is the function of hydraulic actuator?
14. What is a Fluid Power System?
15. Explain the term friction factor.

PART B (16 Marks)

1. i) Discuss the factors to be considered in the selection of hydraulic fluids?
ii) List out the applications of fluid power employed in different industries/fields.
2. i) With neat sketch explain the hydraulic and pneumatic fluid power system.
ii) Discuss the properties of the hydraulic fluids?
3. i) How to calculate frictional losses in common valve and fittings.
ii) Define Reynolds number?
iii) Differentiate between laminar and turbulent fluid flow.
4. i) what are the advantages of oil hydraulic systems over other methods.
ii) What are the desirable properties of hydraulic fluids? Discuss any eight of them in detail.
5. i) How is Reynolds number determined?
ii) Draw fluid power symbols of any six different types of valves?

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Xiaolong Qi



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