

- Q.4 Choose the type of storage reservoir where the liquid is maintained at high pressure. (CO-04)
- Hydraulic crane
 - Hydraulic pump
 - Hydraulic gear
 - Hydraulic accumulator
- Q.5 Which of the following is not a type of control valve? (CO-04)
- Directional
 - Pressure
 - Cylinder
 - Flow control
- Q.6 Which among the following are not the main selection criteria for selection of hydraulic pumps? (CO-04)
- Weight
 - Pressure
 - Speed
 - Discharge

SECTION-B

- Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)
- Q.7 Define Force. (CO-01)
- Q.8 What do you mean by fluid circuit power supplies? (CO-01)
- Q.9 What is the purpose of pressure regulator? (CO-02)
- Q.10 Write the function of air compressor? (CO-02)
- Q.11 Name any one type of special valve. (CO-03)
- Q.12 Define Torque. (CO-04)

SECTION-C

- Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)
- Q.13 Define prime mover. Compare electrical, hydraulic and pneumatic system. (CO-01)
- Q.14 State and explain Pascal's law. (CO-01)
- Q.15 Illustrate with diagram, the operation of hydraulic pump. (CO-02)
- Q.16 List the types of air compressors. Explain the working of any one air compressor. (CO-02)
- Q.17 What is the need of air treatment? Explain the role of compressor, receiver and lubrication in air treatment. (CO-02)
- Q.18 Draw the graphic symbols of two/three position valves. (CO-03)
- Q.19 Draw the symbol and write applications of pilot operated check valve. (CO-03)
- Q.20 Explain cylinder cushioning with neat diagram. (CO-04)
- Q.21 Define rotary actuators. Explain torque/speed and power/speed curves of pneumatic rotary actuators. (CO-04)
- Q.22 What are different types of working fluids? Write their properties. (CO-02)