

Seat No. **OCT-NOV 2025 WINTER EXAMINATION****1154 B.Tech. CBCS****Sub. Name: Industrial Fluid Power****Sub. Code: 81524/81801****Day and Date: Saturday ,13-12-2025****Total Marks: 70****Time: 10:30 AM To 01:00 PM**

- Instructions:**
1. All questions are compulsory
 2. Assume suitable data wherever necessary and mention it boldly
 3. Figures to the right indicate full marks

- Q1) Solve Any Two [12]**
- a. Draw proportion ISO symbol for different element of fluid power system? [6]
 - b. Differentiate between hydraulic and pneumatic systems? [6]
 - c. Explain advantages and disadvantages of fluid power? [6]
- Q2) Solve Any Two [12]**
- a. Write a note on fluid filter? [6]
 - b. Explain special type of cylinder used in hydraulics with neat sketch? [6]
 - c. Explain with neat sketch heat exchanger used in hydraulic system [6]
- Q3) Solve Any Two [12]**
- a. Explain the operation of check valve with symbol? [6]
 - b. Explain the requirement of pressure control, directional control and flow control valve used in hydraulic system? [6]
 - c. Explain with neat sketch pressure relief valve and pressure reducing valve? [6]
- Q4) Solve Any Two [12]**
- a. Explain construction and working of twin valve with neat sketch? [6]
 - b. Classify compressors and draw sketch of screw compressor? [6]
 - c. What are selection criteria of air compressor? [6]
- Q5) Solve Any Two [12]**

- a. Explain meter-out circuit in hydraulic system? [6]
- b. What is regenerative circuit? Explain with neat sketch? [6]
- c. Explain the bleed-off circuit used in hydraulic system? [6]

Q6) Solve Any Two [10]

- a. Explain sequence circuit in pneumatic system? [5]
- b. What are the different circuits used in pneumatics? [5]
- c. Explain various types of speed control circuits? [5]

End Of Question Paper

Important Note for Chief Exam Officer / SRPD Coordinator / Sr Supervisor/ Student -

This Question Paper may be distributed for following Subjects as common code.

सदरची प्रश्नपत्रिका खालील विषयांकरिता वितरित करता येईल.

1] (1154) B.Tech. CBCS (81524) Industrial Fluid Power Part 3 SEM 6

2] (101) Bachelor of Engineering (81801) Industrial Fluid Power Part 3 SEM 6