

Seat No. **MAR_APR 2025 SUMMER EXAMINATION****11731 Bachelor of Technology (NEP-2.0)****Sub. Name: Industrial Fluid Power****Sub. Code: 81524/81801****Day and Date: MAY ,15-05-2025****Total Marks: 70****Time: 02:30 PM To 05:00 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) Write different type of hydraulic fluid and their properties ?
 - b) Draw proportion ISO symbol for different element of fluid power system?
 - c) Write the advantage and applications of fluid power with respect to machine tool applications?
- Q2) Solve Any two** [12]
- a) Explain with neat sketch gear pump?
 - b) Write a note on fluid filter and heat exchanger?
 - c) Explain the working of swash plate type axial piston pump with neat sketch?
- Q3) Solve Any two** [12]
- a) Explain with neat sketch pressure relief valve and pressure reducing valve?
 - b) Explain the operation of check valve with symbol?
 - c) Write note on pressure temperature compensated flow control valve?
- Q4) Solve Any two** [12]
- a) Classify compressors and draw sketch of screw compressor?
 - b) Explain construction and working of twin valve with neat sketch?
 - c) Explain with the help of neat sketch the construction and working of the delay valve?
- Q5) Solve Any two** [12]
- a) Explain with sketch use of counterbalance valve in a hydraulic system?
 - b) Explain with sketch meter-out circuit in hydraulic system?
 - c) What is regenerative circuit? Explain with neat sketch?
- Q6) Solve Any two** [10]
- a) Explain circuit for actuation of double acting cylinder?
 - b) Explain the speed control circuit for an air motor?
 - c) Explain sequence circuit in pneumatic system?

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

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