

BACHELOR OF TECHNOLOGY (C.B.C.S.) (2014 COURSE)

B.Tech.Sem - VII MECHANICAL : : SUMMER - 2022

SUBJECT : INDUSTRIAL FLUID POWER

Day : Thursday
Date : 2/6/2022

S-13460-2022

Time : 02:30 PM-05:30 PM
Max. Marks : 60

N.B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Use of non-programmable **CALCULATOR** is allowed.
- 4) Draw neat and labelled diagrams **WHEREVER** necessary.
- 5) Assume suitable data, if **necessary**.

Q.1 Explain the fluid power system with neat sketch. (10)

OR

What are the primary and secondary functions of a fluid in hydraulic system? (10)
What are the applications of fluid power system?

Q.2 What are the different sources of power and explain gear pump with neat sketch. (10)

OR

Write short note on "Fluid Conditioning". (10)

Q.3 Explain types of valves and their functions in details. (10)

OR

What is the necessity of fluid control in fluid power? Draw neat sketch of restricted check valve. (10)

Q.4 What is function of hydraulic cylinder and explain different types of hydraulic cylinders in details (10)

OR

Write short note on "Mounting for hydraulic cylinders". (10)

Q.5 Explain with neat sketch FRL unit and Draw ISO symbol for the same. (10)

OR

Give classification of filters and explain in details. (10)

Q.6 Analyze the sequencing circuit and write functions of different components. (10)

OR

Draw and explain motor breaking circuit. (10)

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