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Question Paper Code : 50887

B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2023.

Fifth/Sixth Semester

Mechanical Engineering

ME 5694 — HYDRAULICS AND PNEUMATICS

(Common to Manufacturing Engineering/Mechanical Engineering
(Sandwich)/Robotics and Automation)

(Regulations 2017)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. Name any four hydraulic fluids that are commonly used in fluid power system.
2. What is known as pump cavitation?
3. Draw the symbols for the following elements
 - (a) 4/3 Tandem center valve
 - (b) Hydraulic motor
4. Why is end cushioning provided in hydraulic cylinder operation?
5. State the function of pressure intensifier.
6. Write the purpose of using a fail safe circuit in any hydraulic system.
7. What is a Ladder diagram?
8. Discuss the working and function of FRL unit in Pneumatic system.
9. List any two common faults in an hydraulic system.
10. Mention the need for low cost automation with an example.

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