Reg. No.: 8 1 3 8 2 0 1 14 0 35

## Question Paper Code: 50887

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

Fifth/Sixth Semester

Mechanical Engineering

#### ME 8694 - 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.
- 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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