

T. E. (Instru.) Sem-V choice based

1/1

[3 Hours]

[Total Marks: 80]

Please check whether you have got the right question paper.

- N.B: 1. Q.1 is compulsory  
2. Attempt any three questions

1. Attempt any five

- 1) Explain various parts of Globe control valve and its Material.
- 2) Explain in brief about control valve i) Rangability ii) FTO and FTC
- 3) Compare pneumatic, Hydraulic and Electronic system.
- 4) Compare conventional vs SMART Transmitter.
- 5) Describe working of solenoid valve.
- 6) Explain Relay and contactor in brief.

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2. a) With suitable sketch Explain working of FORCE balance valve positioner.

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b) Explain with neat block diagram Features and working of Intelligent transmitter.

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3. a) With suitable sketch explain working of single and Double acting cylinder.

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b) Explain working of various control valves and their industrial applications.

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4. a) With suitable sketch explain closed tank Level measurement using DP Transmitter.

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b) Explain with neat diagram three phase motor control circuit using control components.

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5. a) What is converter? With suitable sketch explain current to pneumatic converter.

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b) Explain with neat diagram Air compressor and distribution system.

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6. Write short notes on.

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- a) Volume booster
- b) Hydraulic pump
- c) Calibration of transmitters
- d) RFID