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5a. Brief the construction feature and working of pressure relief valve.(06 Marks)b. Explain the regenerative circuit and its application.(06 Marks)c. With a neat sketch brief the working of check valve.(04 Marks)

OR

O A	
a. Explain the working of 4/2 manually operated direction control valve with a neat sketc	ch.
(00	6 Marks)
b. With a neat circuit explain the working of sequencing hydraulic circuit and its applicat	tion.
(0	6 Marks)
c. Explain the working of metering in hydraulic circuit with a suitable sketch. (04	4 Marks)

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(06 Marks)

(04 Marks)

(04 Marks)

Module-4

- 7 a. Explain the working of pneumatic filter with a neat sketch.
 - b. Brief the various components of pneumatic system and its fluid power symbol. (06 Marks)
 - c. Brief the working of quick exhaust valve.

OR

- 8 a. With a neat sketch explain the construction and working of pneumatic lubricator. (06 Marks)
 - b. Explain the working of single vane rotary cinder with a suitable sketch. (06 Marks)
 - c. With a neat sketch explain the working of shuttle valve.

Module_5

- 9 a. With a suitable pneumatic circuit, explain the indirect actuation of double acting cylinder using memory valve. (10 Marks)
 - b. Explain the controlling of double acting pneumatic cylinder using solenoid operated direction valve with a circuit. (06 Marks)

OR

- 10 a. Explain the sequencing of two cylinders A and B using cascading method circuit for the cylinder sequence A⁺13⁺B⁻A⁻. (10 Marks)
 - b. Design a suitable electro pneumatic circuit to control of a double acting cylinder using a single limit switch. (06 Marks)

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