Module-3

- With a sketch, explain 3 position 4 way direction control valve. (08 Marks) 5 a. (07 Marks) Explain working of unloading valve (05 Marks)
 - Explain working of shuttle valve.

2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractic

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Important Note: 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages

OR

With the help of circuit diagram, explain sequencing of cylinder. (08 Marks) Explain metering in and metering out circuits. (12 Marks)

Module-4 List the advantages, disadvantages and applications of Pneumatic system. (08 Marks) With a neat sketch, explain F.R.L unit in a pneumatic system. (12 Marks) With a neat labelled sketch explain parts of pneumatic double acting cylinder. (07 Marks) 8 (07 Marks) With a neat sketch, explain quick exhaust valve. Explain working of reciprocating air compressor. (06 Marks) Module-5 With circuit diagram, explain indirect control of single acting cylinders. (08 Marks) (08 Marks) Explain 'OR' and 'AND' logic gates. Write a note on pneumatic throttle valve. (04 Marks) OR Explain with circuit coordinated cylinder movements. (10 Marks) 10 With a neat sketch, explain solenoid controlled direction control valve. Mention advantages. (10 Marks)

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