

gineerin



**15ME72** 

## OR

With the help of neat sketch explain 3 position 4 way direction control valve with closed 6 a. centre configuration. (08 Marks) b. With the help of neat sketch explain application of counter balance valve in a hydraulic system (Counter balance circuit) (08 Marks) Module-4 7 What are the advantages, disadvantages and applications of pneumatic system. (07 Marks) a. With the help of neat sketch explain FRL unit. b. (09 Marks) OR 8 With the help of neat sketch explain pneumatic cylinder mounting methods. (08 Marks) a. b. With the help of neat sketch explain quick exhaust valve. (08 Marks)

## Module

9	a.	With the help of neat circuit explain OR gate system.	(08 Marks)
	b.	With the help of neat circuit explain coordinated motion control system.	(08 Marks)
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## OR

Explain supply air and air exhaust throttling. 10 a. (08 Marks) With a neat sketch explain solenoid controlled pilot operated direction control valve. b.

(08 Marks)