

Code: 15AT41T

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	IV Semester Diploma Examination, April/N	1ay-2018
F	LUID POWER TRANSMISSION & CO	NTROL SYSTEM
Tir	me : 3 Hours]	Max. Marks : 100
Not	te: Answer any six questions from Part – A and any seven que	estions from Part – B.
NO	Published	By:
1.	Sketch the block diagram of hydraulic system.	5
••		
2.	Explain the importance of fluid power engineering in industries	.5
,	Write the classification of valves based on construction.	5
3.	Wifte the classification	
4.	List the different pumps used in hydraulic system.	FOXY ORO
		≥ BY BETA CONSOLE €
5.	What are the properties of air? BETACONSOLE	5
6.	Write the necessity of air receiver.	• • • • • • • • • • • • • • • • • • •
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7.	Draw the symbols of following pneumatic components:	
	(i) Air compressor	
	(ii) Lubricator	
	(iii) 2/2 Valve (DCV)	
	(iv) Double acting cylinder	
	(v) Filter	
8.	Write the common faults in pneumatic system.	5
9	Compare features of hydraulic & pneumatic system.	5

	PART – B	
10.	Explain the working of pressure reducing valve with a neat sketch.	10
11.	Explain the working of double acting actuator with a neat sketch.	10
12.	Explain the working of 4/2 DCV with a neat sketch.	1(
13.	(a) Explain gas loaded accumulator with a neat sketch.(b) Explain the visual checks procedure of oil.	5
14.	Explain meter in speed control circuit with a neat sketch.	10
15.	Explain the construction and working of Gear Pump with a neat sketch.	10
16.	Explain the construction and working of vane type compressor with a neat sketch. BY BETA CONSOLE	10
17.	(a) Explain the necessity of FRL unit.	5
	(b) Draw basic pneumatic circuit and label the components.	5
18.	Explain speed control circuit of double acting cylinder with a sketch.	10
19.	Illustrate Intensifier as an alternate to pump in air over oil intensifier circuit with a neat diagram.	10

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