Mech

PRN:		Course Code :	MET 2701

Final Year **B. Tech** End Semester Examination Winter 2023

Industrial Hydraulics and Pneumatics

Day and Date: Tuesday, 28/11/2023 Max Marks: **50**

Time : 2.00 to 4.00 PM Duration: **02** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt any two from the following**			
	a)	Explain the effect of temp and pressure on hydraulic fluid.	06	1	CO1
	b)	Explain the advantages and disadvantages of pneumatic system.	06	2	CO1
	c)	Draw hydraulic system & explain its working.	06	2	CO1
Q.2		**Attempt any two from the following**			
	a)	Explain the variable displacement vane pump.	06	2	CO2
	b)	What is function of flow control valve? Explain.	06	1	CO2
	c)	Explain the function and types of accumulator.	06	1	CO2
Q.3		**Attempt the following**			
	a)	Draw and Explain working and application of meter-out circuit.	06	2	CO3
	b)	What is FRL unit? Explain its function and symbol.	07	2	CO3
		or			
	b)	What is sequencing circuit? Explain in details.	07	1	CO3
Q.4		**Attempt the following**			
	a)	What is fluid logic? Explain logic gate 'NOT'	06	1	CO4
	b)	Explain back pressure sensors.	07	1	CO4
		or			
	b)	Explain the application of fluidics.	07	2	CO4

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