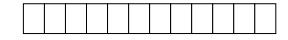
Register No.





SNS COLLEGE OF ENGINEERING

Kurumbapalayam (Po), Coimbatore - 641 107

AN AUTONOMOUS INSTITUTION



Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai

INTERNAL ASSESSMENT EXAMINATION - II

VI Semester

B.E Mechanical and Mechatronics Engineering (Additive Manufacturing)

19MO601 – Hydraulics and Pneumatics

Regulations 2019

Duration	: 1 Hour 30 Minutes		
Date	: 03.05.2023	Session: FN	

Maximum: 50 Marks

Answer ALL questions

	PART A - (5 X 2 = 10 marks)				
Q.No	Question	Μ	СО	BL	
1.	List the application of intensifier?	2	CO-2	L -2	
2.	What is the function of accumulator?	2	CO-2	L -2	
3.	What is a sequencing circuit	2	CO-3	L -1	
4.	What is the function of regenerative circuits?	2	CO-3	L -2	
5.	Draw fluid power symbol for pressure intensifier and gas loaded type accumulator.	2	CO-3	L -1	

PART B - (2 X 13 = 26 marks)								
6.	(a)	With a neat diagram explain the spool positions inside a Four way valve	13	CO-2	L-3			
	OR							
	(b)	With a neat diagram explain the Mechanical type servo valve	13	CO-2	L-3			
7.	(a)	Draw the circuit diagram and explain the control of Single acting cylinder	6	CO-3	L-3			
	(b)	Draw the circuit diagram and explain the control of Double acting cylinder	7	CO-3	L-3			
	OR							
	(b)	With neat sketch explain the operation of regenerative cylinder circuit	13	CO-3	L-3			
	PART C – (1 x 14 = 14 Marks)							
8.	(a)	Discuss double pump hydraulic system with circuit diagram	14	CO-3	L-3			
	OR							
	(b)	With the help of circuit diagram describe fail safe circuit	14	CO-3	L-3			
