

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**

<b>PART A - (5 X 2 = 10 marks)</b>				
<b>Q.No</b>	<b>Question</b>	<b>M</b>	<b>CO</b>	<b>BL</b>
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
<b>OR</b>					
	(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
<b>OR</b>					
	(b)	With neat sketch explain the operation of regenerative cylinder circuit	13	CO-3	L-3
<b>PART C – (1 x 14 = 14 Marks)</b>					
8.	(a)	Discuss double pump hydraulic system with circuit diagram	14	CO-3	L-3
<b>OR</b>					
	(b)	With the help of circuit diagram describe fail safe circuit	14	CO-3	L-3

\*\*\*\*\*

Faculty In charge

H.o.D