

V.P. & R.P.T.P SCIENCE COLLEGE

INTERANAL EXAM

T.Y.B.Sc.(SEM-V) INSRUMENTATION (VOC.)

SUB: - Control system components SUB CODE: US05CINV03			
DATE:-05/10/2019 TIME: 11:00 am to 12:15 pm		1ARKS-25	
Q-1	Choose correct answer		[05]
1.	Which of the following is not a type of timing relay		
	(A) ON delay relay	(C) LATCHING	P. Scie
	(B) OFF delay relay	(D) Period ON -OFF relay	3:
2.	Which is not advantage of stepper motor?		1
	(A) high speed limit	(C) Precise monitoring	LIBRARY
	(B) no contact brushes	(D) None of above	*\
3.	Which of the following is not type of globe valve?		
	(A) Single port valve	(C) Three way valve	
	(B) Angle valve	(D) Butterfly valve	
4.	Contactors are preferred in application involving		
	(A) Relay logic circuits	(C) Low power applications	
	(B) High switching Frequency		
5.	Spring less diaphragm actuator i		
	(A) hydraulic	(C) electrical	
	(B) Pneumatic	(D) electromechanical	
Q-2	Explain electromagnetic relay's working principle, construction and working?		[05]
		OR	
Q-2	Write short note on Solid State F	Relay.	[05]
Q-3	Write short note on various elen	ments of servo system.	[05]
		OR	
Q-3	State working principle of steppe	er motor and explain working hybrid stepper motor	r. [05]
Q-4	With sketch explain various part	of diaphragm valve.	[05]
		OR	
Q-4	With sketch explain single and d	ouble port globe valve.	[05]
Q-5	Explain hydraulic actuators' prin	ciple, construction and working in brief.	[05]
	*	OR	
Q-5	Explain terms for control valve w Kv flow coefficient, pressure dro	vith justification like Range ability, turned out, Cv $\&$ pp, specific gravity of fluid.	[05]