Reg No.:Name:		J E	CD.
APJ ABDUL KALAM TECHNOLOGICAI			
FOURTH SEMESTER B.TECH DEGREE EXAMIN	ATION(R	S),	MAY 2019

Course Code: MR202

Course Name: SENSORS AND ACTUATORS (MC)

		Course Maine. Beliabolis 11.0 1101 0111 0110 (120)	
Max	. Ma	rks: 100 Duration: 3 H	ours
		PART A Answer all questions. Each question carries 5 marks	
1		Write a short note on industrial prime movers	5
2	Give a brief description about adsorption driers		5
3	With a neat sketch explain 4/2 poppet valve		5
4		Compare static seal and dynamic seal	5
5		With a neat sketch explain fail up actuator	5
6		Evaluate flapper nozzle	5
7		Appraise any two feedback devices	5
8		Interpret different types of fluid sensors	5
		PART B Answer any three questions. Each question carries 10 marks	
9 Compare in detail about the electrical, hydraulic, pneumatic system		10	
Interpret briefly about all types of piston compressor with the help of neat diagram		10	
11		Illustrate the working of	10
		(i) Lobe compressor	
		(ii) Liquid ring compressor	
List out any 3 application of check valves		10	
13		Discuss in detail about meter in speed control technique in rotary actuators	10
		PART C	
		Answer any two questions. Each question carries 15 marks	
14		Write a short note on	0
	a)	PI converter	8
	b)	Air relay	7
15		Summarise on	_
	a)	Volume booster	7
	b)	PID controller	8
16		Illustrate with suitable diagrams and truth table of histable flip flop, OR, NOR,	15

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