[4] [4]

G.R.	No. paper 2 code :- U239-15	55(
	OCTOBER 2019 INSEM (T1) S. Y. B.TECH. (Mechanical Engineering) (SEMESTER – III) RSE NAME: Instrumentation & Control RSE CODE: MEUA21185	
Time	(PATTERN 2018) e: [1 Hour]	
11111	[Max. Max	rks: 20
1) 2) 3)	All questions to candidates: All questions are compulsory. Figures to the right indicate full marks. Use of scientific calculator is allowed. Assume suitable data where ever required.	
Q 1) a) b)	Attempt any one Explain Static characteristics of instruments used in industry. What are the different types of proximity sensors? Explain any two in detail with neat diagram?	[8] [8]
	Attempt any one Explain 3-phase induction motor with help of neat sketch also Write down the advantages disadvantages? Explain working of BLDC motor with neat sketch? List down the applications	[8]
Q 3) a) b)	Attempt any one . Define microprocessor? Draw the architecture of 8085 microprocessor Write down the steps of DAQ in detail?	[4] [4]