BIRLA INST	TUTE OF	TECHNO	LOGY,	MESRA,	RANCHI		
(END SEMESTER EXAMINATION)							

		(END SEMESTER EXAMINAT	,				
CLASS: BRANCH	M.TECH H: EEE		SEMESTER : II SESSION : SP/19				
TIME:	3.00 Hrs.	SUBJECT: EC599 SENSORS & AC	TUATORS FULL MARKS: 50				
 INSTRUCTIONS: 1. The question paper contains 5 questions each of 10 marks and total 50 marks. 2. Attempt all questions. 3. The missing data, if any, may be assumed suitably. 4. Before attempting the question paper, be sure that you have got the correct question paper. 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall. 							
Q.1(a) Q.1(b)		ssification of the sensors? Discuss bi involved in thick film and thin film		[5] [5]			
Q.2(a) Q.2(b)	deformation modes used		? Also write about the different types of	f [5] [5]			
Q.3(a) Q.3(b)			used for the measuring half-cell potential. ic construction of the photomultiplier cell.				
Q.4(a) Q.4(b)			pplication. cturing and production process? Explain the	[5] [5]			
Q.5(a) Q.5(b)	cylinders.	and hydraulic actuators? Differentia the DC motor. What are the various	te between single acting and double acting types of DC motors? Explain.	[5] [5]			

:::::22/04/2019 M:::::