Con. 6916-11. MP-4360

	(3 Hours) [Total Marks:	100
N.B.	(1) QuestionNo.1 is compulsory, answeranyfour from the remaining ix quest (3) Explain with neat diagram wherever required.	ions.
(b)	\IVhatare advantages of Electronic voltmeter over Conventionai voltmeter? How are Lissayous patterns used for frequency and phase measurement? Expiain each block of a generalized measurement system. Find response of first order system to Ramp input.	5 5 5 5
2. (a) (b)	Explain the \tvorkingof an Analog Phase meter. Draw and explain digital frequency meter? VVhenis period measurement prefered?	10 10
3. (a)	Explain in detail working of a digital storage eRO. VVhatare its various modes of operation ?	10
(b)	Expiain the working of sweep generator in a CRO.	10
4. (a)	Explain the working of a digital Multtrneter.	10
(b)	Explain the working of Ramp type digital voltmeter.	10
5. (a)	explain the working of Audio Frequency signal generator.	10
(b)	Draw and explain the workinp of a FET voltmeter.	10
6. (a)	Explain Multi-channel Data Acquisition system.	10
(b)	Explain the LCD display system and the Touch screen Display system.	10
7. \tv r	ite short notes on any three :- (a) Requirement of a good Laboratory type signai qenerator (b) Effect of Zeta (s) on Second order system (c) Oscilloscope for Biomedical Measurement (d) True RMS responding voltmeters.	20