Seat No.:	-
S	A
[Max. Marks	70
ave their usual meanings.	
Itmeter. Discuss the "Chopper of	
diagrams. Write advantages of	14
tmeter and explain. explain. Also draw the block	7
СХРІСТ	7
nation type digital voltmeter.	10
1. Draw the block diagram of	
2 μF capacitor. If the applied grator after 2 seconds?	4
Determine the resolution. How ge and 100 V range?	
ournose CRO and explain its	

N15-104

November-2014

B.Sc., (Sem. -V)

EL-303: Electronics

Time: 3 Hours] All questions carry equal marks. (1) Instructions: Symbols and terminology used here ha (2) Figures to the right indicate marks. (3) Explain the principle of chopper type DC amplifier volt 1. type DC amplifier voltmeter in detail with necessary di Chopper type DC complifier voltmeter. OR Draw a block diagram of true RMS responding volt Draw a circuit of basic differential voltmeter and diagram of an ac differential voltmeter. Draw the block diagram of successive approxima (A.) 2. Explain its working with necessary diagrams. OR Write the operating principle of Ramp type DVM. Ramp type DVM and explain. An integrator consists of 100 k Ω Resister and 2 voltage is 2 volt, what will be the output of the integr. (B) OR A 313 digit DVM is used for measuring voltage. Det would a voltage of 13.32 be displayed on 10 V range Draw neat and clean block diagram for general purpose CRO and explain its 8 3. working by showing role of each block. OR Draw the diagram of Meshless scan expansion post deflection acceleration cathode ray tube and explain.

Write the function of delay line. Write two kinds of delay line. Explain any one delay line in detail. OR Write short notes on screens for Cathode Ray tube. Draw the block diagram of Laboratory square wave and pulse generator and explain with necessary diagrams. OR Write the fundamental difference between a pulse generator and square wave generator. Draw and discuss the pulse characteristics and terminology using necessary diagrams. Answer the following: What is VTVM? Write basic difference between peak responding voltmeter and average responding voltmeter. Define sensitivity of digital voltmeter. (4) Define Duty Cycle. Write disadvantage of Ramp type DVM. (5) Draw simple sample and hold circuit. (6)Define resolution. (7) What is persistence? (8) What is graticules? (9) Define electric field. Define fall time (12) Draw a block diagram of simple sine wave generator. (13) Draw the effect of under compensated probe. Convert 60 dBw to dBm.

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