Shree H.N.Shukla group of colleges



PHYSICS

T.Y.B.Sc. (Sem. V) (CBCS)
Unit Test examination
PAPER- 503

UNIT 4, 5 - TRANSDUCER & DIGITAL CIRCUIT

DATE	E: To	otal marks :30	
Instr	ructions: All questions are compulsory. The right side figure indicates total marks of the questions the figure wherever necessary. Write answers of all the questions in main answer		
	SECTION-A		
Q.1: One marks questions:		[5 MARKS]	
1	Give the full form of LVDT.		
2	Micro phone is an transducer.		
3	Full form of CRT		
4	Full form of CRO		
5	FLIP FLOP has I input.		
	SECTION – B		
Q.2 (A): Short Questions: Write all three : [2 Marks each]		[6 MARKS]	
1	Explain the truth table and circuit daigram of R-S FLIPFLO	OP.	
2	Explain the truth table and circuit daigram of D FLIPFLOR	D.	
3	Define : Transducer.		
Q.2 (B) : Short questions: Write all three: [3 Marks each]		[9 MARKS]	
1	Explain resistive position transducer.		
2	Explain Strain gauge .		
3	Explain analog and digital instruments.		
Q.2 (C): Write Detail Note on [Any two]: [5 Marks each]		[10 MARKS]	
1	Describe the carbon microphone.		
2	Explain 1 to 16 decoder.		
3	Explain IC 555 in detail.		
4	Write note on JK flip flop.		