0512E883

at No :	Candidate's
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B.Sc Sem.-3 (NEP) Examination

DSC-C-231

Electronics

		Exect ones		
Time: 2-00 Hours]		[M [M	ax. Marl	s : 50
		Instructions: (1) Symbols used here have their usual meanings. (2) Figures to the right indicate marks.		
Q-1	(a)	Write short-note on CSIR.		(10)
	(b)	OR Explain the scientific experiments of Jagdish Chandra Bose.		(10)
Q-2	(a)	Explain Common-Base amplifier. Discuss various gains of this amplifier. OR		(10)
	(b)	Write a short-note on: Transformer coupled class A amplifier.		(10)
Q-3	(a)	Explain operation of JFET in detail.		(10)
		OR		(10)
	(b)	What is DE-MOSFET? Explain its construction and working.		(10)
Q-4	(a)	Draw the block-diagram of a regulated power supply. Explain function block.	of each	(10)
		OR		
	(b)	Enlist different types of filters. Explain any one in detail.		(10)
Q-5		Answer in brief (Attempt any ten out of twelve)		
	(1)	State full form of CSIR.		(10)
	(2)	Write the Birth date and birth place of Jagdish Chandra Bose.		
	(3)	Mention contribution of JC Bose in plant physiology in one sentence.		
	(4)	Classify transistor amplifiers on the bases of transistor configurations.		
	(5)	What is cross-over distortion?		
	(6)	Maximum theoretical power efficiency of class-B push-pull amplifier is		
	(7)	Write any one advantage of the FET.	%.	
	(8)	Write any one disadvantage of the FET.		
	(9)	Mention any one application of the FET.		
	(10)	Efficiency of the half-wave rectifier is%.		
	(11)	What is voltage regulation? Why it is required?		
	(4.0)	to the state of th		

(12) Which type of diode is generally used in regulator circuits?