B. Tech. Sem - III (Production Engg.) (2014 COURSE) (CBCS) : SUMMER - 2019

SUBJECT: BASIC ELECTRONICS AND COMMUNICATION ENGINEERING

Day: Date:		orday 5/2019 S-2019-2581	Time: 02.30 PM TO 0 Max Marks: 60	5.30 PM	
N.B.:					
	1)	All questions are COMPULSORY .			
	2)	Figures to the right indicate FULL marks.			
	3)	Draw neat and labeled diagrams WHEREVER	-		
	4)	Use of non-programmable CALCULATOR is	allowed.		
Q. 1	a) b)	Draw and explain V-I characteristics of Zener Di Write in brief on FET.	ode.	(05) (05)	
		OR			
	a)	Write in brief on Inductors and their types.		(05)	
	b)	Compare CB, CC and CE circuits.		(05)	
Q.2	a)	With the help of block diagram explain OP-AMF).	(05)	
	b)	Write in brief on LED.		(05)	
		OR			
		Write in brief on rectifier. Also compare half war	ve and full wave rectifier.	(10)	
Q.3		What is number system? Divide $(110101)_2$ by $(10(1111)_2)_2$ and multiply $(110101)_2$ by $(1111)_2$ using Division and multiplication.		(10)	
		OR			
	a)	Write in brief on universal gates.		(05)	
	b)	Compare combinational and sequential circuits.		(05)	
Q.4	a) b)	Compare AM and FM. Write in brief on amplitude Modulation.		(05) (05)	
		OR			
		With the help of block diagram explain analog co	ommunication system.	(10)	
Q.5	a)	What are the steps of sampling?		(05)	
	b)	Explain pulse code modulation.		(05)	
		OR			
	a)	Compare delta modulation and adaptive delta mo	dulation	(05)	
	b)	Define digital communication system and draw communication system.	w block diagram of digital	(05)	
Q.6	a) b)	What are the various registers in 8085? Draw the architecture of 8085 microprocessor.		(05) (05)	
	,	OR			
	a)	Write in brief on interrupts in 8085 microprocess	or.	(05)	
	b)	What is address bus and control bus?		(05)	

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