## VITHALBHAI PATEL & RAJRATNA P.T. PATEL SCIENCE COLLEGE

## VALLABH VIDHYA NAGAR

S.Y. B.Sc. SEM: IV

**INTERNAL TEST** 

DATE: 16<sup>th</sup> March. 2016 TIME: 03:00 pm to 4:30 pm

**TOTAL MARKS: 25** 

SUB: ELECTRONICS
SUB CODE: US04CELE01

Q. I	Cho	ose the correct answer.			[03]
(1)	to the second	is a unit of relative power change.			
	(A)	Decibel	(C)	Volt	
	(B)	Ampere	(D)	None of above	
(2)	In a	n n-channel Enhancement MOSFET the sub	strate is	made of type of material.	
	(A)	Р	(C)	N	
	(B)	Z	(D)	None of above 7.P. Scien	1
(3)	Common drain circuit is also known as				10
	(A)	Source follower	(C)	Drain follower	0
	(B)	Collector follower	(D)	None of above	ege
				L Nagar	//
Q.2		wer the following in short.(Attempt any tw			[04]
(1)					
(2)		raw the symbols of n-channel Enhancement MOSFET.			
(3)	List different FET parameters.				
Q.3	Draw a frequency response curve for transistor amplifier and explain the drawing				[06]
	necessary circuit why gain falls of at lower and upper frequency ends.				
	OR				
Q.3	(A) Draw the family of FET drain characteristics of various levels of gate source bias				[03]
		voltage and explain it.			
	(B)	3) Explain how you can draw transfer characteristics from FET drain characteristics.			
Q.4	Give an account of n-channel Enhancement MOSFET.				[06]
		OR			
Q.4		Give an account of n-channel enhanceme	nt deplet	ion MOSFET.	[06]
Q.5		Draw the neat circuit of common source	amplifier	and explain its working also draw	[06]
		necessary wave forms.	1000		
			OR		
Q. 5		Draw the neat circuit of common drain a necessary wave forms.	mplifier	and explain its working also draw	[03]