## V.P. & R.P.T.P SCIENCE COLLEGE, V.V.NAGAR

S.Y.B.Sc. Sem-IV EXAMINATION

SUB. CODE:-US04CELE01 DATE:-15 /3/2018

TIME:-03:00 am to 04:30 pm

SUB:Electronic-Devices MARKS-25

Q-1	Choose correct answer		[3]
1.	is a unit of relative power.		
	(A) Decibels	(C) Volt	
	(B) Ampere	(D) None of these	
2.	In case of depletion Enhancement MOSFET, the gate source voltage may be either		r
	or in both n & p channel device.		
	(A) positive; negative	(C) positive; positive	
	(B) negative; negative	(D) None of these	
3.	type of biasing is used in Common source amplifier circuit.		
	(A) fixed bias	(C) self bias	
50	(B) potential divider bias	(D) None of these	
Q-2	Short answer type question	n. (any two )	[04]
1.	List different FET parameters		
2.	Draw the FET equivalent circuit.		
3.	Draw the input & output wave form of common source amplifier circuit.		
Q.3	Draw frequency response of transistor amplifier. Explain why response fall's off at lower and upper frequency ends also drawing necessary circuit diagram.		t [06]
		OR	[0.0]
Q.3	Give an account of fixed vol	tage bias circuit for FET.	[06]
Q.4	Draw the potential divider band analysis.	piasing circuit using n-channel FET, Explain its working	[06]
		OR	
Q.4	Give an account of n-chann	el enhancement MOSFET.	[06]
Q.5	Draw the neat circuit diagra detail & draw necessary wa	am of common source amplifier, explain its working in veform.	[06]
		OR	
Q.5	Draw the neat circuit diagram of common gate amplifier, explain its working in detail & draw necessary waveform.		[06]

