V.P & R.P.T.P. SCIENCE, V.V.NAGAR B.Sc. (IVth SEM.) ELECTRONICS Internal Exam

	3:00 4- 5:00	SUB: US04CE	
	3:00 pm to 5:00 pm	MARKS-	
Q-1	Choose correct answer	and the second s	[08]
1.	is a unit of relative power		
	(A) Decibel.	(C) Volt.	
2	(B) Ampere.	(D) None of these	P. Scie
3.	The Field effect transistor (FET) is a	11 1 1	
	(A) Voltage	(C) Current.	
	(B) Resistance.	(D) None of these	IBRAR
	FET potential divider biasing circuit is		
	(A) Better	(C) Worst.	
	(B) Not better.	(D) None of these	V. Nag
4.	In any type of biasing circuit gate of FET is always biased.		
	(A) Reversed	(C) Forward	
	(B) Saturated.	(D) None of these	
5.	type of biasing circuit is	used in common source amplifier	
	(A) Potential divider.	(C) Self bias.	
	(B) fi xed bias.	(D) None of these	
6.	Common drain amplifier circuit is also kn	nown as	
	(A) Source follower	(C) Emitter follower.	
	(B) Collector follower.	(D) None of these	
7.	Unit of light intensity is		
	(A) Lumens	(C) Volts	
	(B) Ampere.	(D) None of these	
8.	In photomultiplier tube several addition		
	(A) Dynodes.	(C) Plate	
	(B) Capacitor.	(D) None of above	
Q-2	Short answer type question. (any Five)		[10]
1.	List different FET parameters.		[=0]
2.	Draw the common source FET circuit using fixed voltage bias.		
3.	Draw the Self bias circuit for n-channel FET.		
4.	Draw the FET equivalent circuit,		
5.		Common source amplifier circuit	
6.	Draw the input and output waveform of Common source amplifier circuit. Draw the input and output waveform of Common drain amplifier circuit.		
7.	Draw the symbol of Photodiode, Solar cell & LED. Explain what you mean by Photoconductive cell, Give Example.		
8.	explain what you mean by Photoconduct	ive ceil, Give Example.	
Q.3		mplifier and explain it also explain why gain	[80]
	of an amplifier fall's off at lower and upp	er frequency ends.	
		OR	
Q.3(a)	Draw the family of FET drain characterist and explain it.	ics for various levels of gate source voltage	[04]
Q.3(b)	Explain how you can draw transfer chara	acteristics from FET drain characteristics.	[04]
Q.4	Draw the neat circuit of FET of potential working.	divider basing circuit and explain its	[80]
		OR	
Q.4	Give an account of n-channel enhancement	ent MOSFET.	[08]
Q.5	Draw a neat circuit of Common drain am	nplifier and explain its working. OR	[80]
Q.5	Draw a neat circuit of Common Source a		[80]
Q.6	Give an account of photomultiplier tube		[80]
		OR	
Q.6	Give an account fo LCD in detail.		[08]
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