2nd Sem. / Electrical Engg. Subject : Electronics -I		170927	point.	(CO-3)	
			Q.7 DC lord line is a plot of	and (CO-3)	
			Q.8 The h _{re} denotes	(CO-5)	
			Q.9 JFET stands for	(CO-5)	
Time: 3 Hrs.		M.M. : 100	· · · · · · · · · · · · · · · · · · ·		
SECTION-A			Q.10 MOSFET has termir	nals. (CO-5)	
Note: Objectives type questions. All questions are			SECTION-B		
compulsory (10x1=10) (Course Outcome/CO)		•	Note: Very Short answer type ques	stions. Attempt any	
		se Outcome/CO)	ten parts	(10x2=20)	
Q.1	Value of knee voltage for a silicon diode is		Q.11 Define CMOS.	(CO-5)	
	volt.	(CO-1)	Q.12 Define current gain.	(CO-4)	
Q.2	Zener diodes operate in	region. (CO-2)	Q.13 Define stability factor.	(CO-3)	
Q.3	Reverse saturation current in PN junction under reverse bias increases. (True/ False) (CO-1)		Q.14 Draw symbol of NPN transis	tor. (CO-3)	
			Q.15 Define Decibel gain.	(CO-4)	
Q.4	Emitter of a transistor is doped False)	d heavily (True / (CO-3)	Q.16 Define Dynamic resistance.	(CO-1)	
Q.5	ICEO = ICBO.	(CO-3)	Q.17 Define Depletion layer.	(CO-1)	
Q.6	region of a transistor is	best place for Q	Q.18 Define Varacter Diode.	(CO-1)	
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Q.19 Define transistor biasing.	(CO-3)	Q.30 Explain halt wave	e rectifier circuit and it	
Q.20 Define phase reversal.	(CO-4)	efficiency		(CO-1)
Q.21 Define load coupling.	(CO-4)	Q.31 How current flow	s in a PN junction dioc	le.(CO-1)
Q.22 Define output impedance.	(CO-4)	Q.32 Explain DC load	line.	(CO-4)
SECTION-C		SECTION-D		
Note: Short answer type questions. Attempt a questions. (any eight 8x5=40)	Note: Long answer typ questions.	•	any three 3x10=30)
Q.23 What is effect of temperature on operat	ing point (CO-3)	Q.33 Explain common and its current characteristic.	emitter transistor conf gain and input an	•
Q.24 Define the emitter follower circuit applications	and its (CO-3)	Q.34 Explain various	types of filter circuits	(CO-1)
Q.25 Explain POWER MOSFET.	(CO-5)	Q.35 Explain potential	divider biasing circuit	s.(CO-3)
Q.26 Explain Transformer coupled amplifier	(CO-4)	Q.36 Explain working frequency response	of RC coupled amnse and applications.	•
Q.27 Explain characteristic and operatio channel FET.	n of N (CO-5)	(Note: Course outco	me/CO is for office us	se only)
Q.28 Explain fixed biasing circuit	(CO-3)			
Q.29 Explain Zener diode and it use as regulator.	voltage (CO-2)			
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