NMAM INSTITUTE OF TECHNOLOGY, NITTE (An Autonomous Institution affiliated to VTU, Belagavi)

n.	(An Autonomous Institution affiliated to VTU, Belagavi) (B.E. (Credit System) Mid Semester Examinations - 1, February ASSOCIATE PARIS ELECTRONICS	y 2016		
1	15EC112 - BASIC ELECTRONICS	Max. Marks	s: 20	
ration	1 Hour Note: Answer any One full question from each Unit.	Marks	вт.	
a) b)	Show the circuits required for obtaining forward bias and reverse bias V characteristics for germanium diode. Sketch characteristics, mark cut-in voltage characteristics forward resistance), reverse breakdown voltage and explain. Sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic and draw the corresponding electric sketch one approximate characteristic sketch one approximate characteristic sketch one approximate characteristic sketch one approximate characteristic sketch one approximate sketch one approximate characteristic sketch one approximate sketch one approximate characteristic sketch one approximate sketch one approx	cal of	L*2	
	200 ohms. If the input DC voltage is 10 volts, what is the value of load currently of this approximation?	2111	4 L3	3
a)	Sketch forward V-I characteristic for PIECEWISE LINEAR approximation for silicon diode where cut- in voltage and a dynamic resistance are considered some senting diode and explain. Show the electrical equivalent circuit for	(III)	5	L3
b	case.	C .0	5	L4
a	Unit – II With circuit diagram and relevant waveforms discuss the operation of a wife. Derive expressions for output average voltage a contraction of the circuit diagram.	a half ind % a Rr. olts. If	6	L3
t	voltage regulation consistency voltage regulation consistency in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rating of 100. Input transformer in a 2 diode FWR has secondary rat	power	4	L4
	Sketch V-I characteristics of ZENER diode. Mark location of 12 with these parameters. The parameters are parameters at location of 12 with these parameters. The parameters are parameters as a local resistance of 50 ohms, from an input d. c. supply of 12 with the parameters are a local resistance of 50 ohms, from an input d. c. supply of 12 with the parameters are parameters.	eakdown.	5	; L2
	across a load resistance of 50 onms, from an across a load resistance of 50 onms, from an across a load resistance of 10 mA to sustain reverse ble zener requires a minimum current of 10 mA to sustain reverse ble zener requires. Draw the circuit and succession connected what will be to values. In the circuit designed, if the load is disconnected what will be to values. In the zener?	ne power		5

dissipation in the Zener? oom's Taxonomy, L* Level

01.061, 1