[Total No. of Questions: 2] Seat No			[Total No of Pages: 1]	
		G. H. Raisoni of Engineering and Manag (An Autonomous Institution) F. Y. B .Tech (Term- I) CAE I- 2020(2020 Pattern) Introduction to Discrete Devices (UR		
[Time: 1 Hours]		lours]	[Max. Marks: 15]	
applicat	elate tions	operation of diodes, types of diodes and their role in a		
such as	tran	op the capability to analyze and design simple circuits sistors using the concepts of load lines, operating poin fy Power amplifiers, Oscillators & Display Devices.	<u> </u>	
CO4: II Field E	nter _l ffect	oret the operation of the Field Effect Transistor (FET) Transistor (MOSFET) and design FET circuits		
		instrate familiarity with basic electronic components are reuits. Instructions to the candidates:	and use them to design simple	
1) All questions compulsory				
2) Neat diagrams must be drawn wherever necessary.				
	-	o the right indicate full marks.		
4) Assı	ume	suitable data, if necessary.		
CO1	a)	Define rectifier and Explain the Half wave rectifier w	ith waveform	[3]
	b)	Define the clipper and explain parallel negative clippe	er in details.	[3]
CO2	a)	What is the necessary AC input power from transfer HWR to deliver 700W of DC power to load? What we for the same load in Full wave rectifier?	•	[4]
		OR		
	b)	For Half wave rectifier peak voltage is 32.53V, the did Ω and resistance secondary winding is 10Ω . For a Calculate average, rms values of load current and volt & ripple factor.	load resistance of 4K Ω ,	[4]
	c)	Explain the working Bridge rectifier with its wavefore efficiency and ripple factor of Bridge rectifier.	m also explain the	[5]
*****	****	******All the best*****	*********	*****