[Total	No. of Questions: 2] Seat N	[Total No of Pages: 1]					
	(An A	Engineering and Manag Autonomous Institution Y. B .Tech (Term- I)					
	CAE	II- 2020(2020 Pattern)					
	Introduction	to Discrete Devices (UI	ECL105)				
[Time:	1 Hours]		[Max. Marks: 15]				
Course (	Outcome						
	elate operation of diodes, types	of diodes and their role in	design of simple electronic				
applicat			3 1				
CO2: Develop the capability to analyze and design simple circuits containing non-linear elements							
such as transistors using the concepts of load lines, operating points for various biasing methods.							
CO3: Classify Power amplifiers, Oscillators & Display Devices.							
	iterpret the operation of the Fig.		), Metal Oxide Semiconductor				
•	fect Transistor (MOSFET) and	<b>o</b>					
	emonstrate familiarity with bas ic circuits.	ic electronic components d	ina use inem to aesign simple				
Instructions to the candidates:  1) All questions compulsory							
	<ul><li>All questions compulsory</li><li>Neat diagrams must be drawn wherever necessary.</li></ul>						
3) Figures to the right indicate full marks.							
	me suitable data, if necessary.						
CO2	a) What is BJT and expla	in its different types wi	th symbol and [3]				
	structure.	11.01					
	b) Design single stage CE	amplifier and explain	in details. [5]				
CO3	a) Explain the following t	erms in details	[3]				
005	1) Gain of BJT	oring in dotains	[5]				
	2) Stability factor						
	3) Need of Stabilize	ation					
	,						
	b) Define DC load line w	ith proper circuit diagr	am and explain Q- [4]				
	Point.						