Roll No	
24004	
B. Tech. 1st Sem. (Common for All	
Branches) Examination – December, 2018	3
BASICS OF ELECTRONICS	
Paper: ECE-101-F	
Time : Three Hours ] [Maximum Marks : 10	0
Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint it this regard, will be entertained after examination.	
Note: Attempt five questions in all, selecting on question from each Section. Question No. 1 is compulsory.	
1. Write short notes on the following:	0
(a) Amplifiers	
(b) LED	
(c) UPS	

(d) CRD

## SECTION - A

2.	(a)	Explain P-N junction is the breakdown region.	10				
	(b)	Describe terminal characteristics of junct diode.	ion 10				
3.	(a)	Describe Frequency response of RC coup Amplifier.	led 10				
	(b)	Discuss working of Cascaded Amplifier.	10				
	SECTION - B						
4.	(a)	What is criteria of ascillations? Explain.	10				
	(b)	Explain working of SMPS.	10				
5.	Exp	plain different characteristics and applications	of				
	op-	amps.	20				
	SECTION - C						
6.	(a)	Explain SR and J-K flip flop.	10				
	(b)	Derive various gates using universal gates.	10				
7.	(a)	Describe working of function generator.	10				
	(b)	Compare analog and digital multimeter.	10				

(2)

## SECTION - D

О.	Des	cribe construction and working of LED in de	ta11.20
9.	(a)	What is dot matrix display. Explain.	10
	(b)	What is seven segment display. Explain.	10