Roll N	No	
·	24004	
В	. Tech. 1st Sem. (Common for All	
Bran	nches) Examination – December, 201	8
•	BASICS OF ELECTRONICS	
	Paper: ECE-101-F	
Before i	Three Hours [Maximum Marks : 10 answering the questions, candidates should ensure that they happlied the correct and complete question paper. No complaint	ve
_	ard, will be entertained after examination.	_
Note :	Attempt <i>five</i> questions in all, selecting <i>or</i> question from each Section. Question No. 1 <i>compulsory</i> .	ne is
1. W	Vrite short notes on the following:	20
(a	a) Amplifiers	
(ŀ) LED	
(0	e) 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	led				
		Amplifier.	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

8.	Des	scribe construction and working of LED in detail	1.20
9.	(a)	What is dot matrix display. Explain.	10
	(b)	What is seven segment display. Explain.	10