KERALA AGRICULTURAL UNIVERSITY

B.Tech (Food.Engg) 2014 admission IInd Semester Final Examination- June /July-2015

	Cat. No: Elen.1201 Title: Basic Electrical Engineering (2+1)	Marks: 50 Time: 2 hou
	PART-A	
Anew	er all questions	$(10 \times 1.0 = 10)$
A115W	Emitter base junction in PN junction is formed by	*
າ. ວ	Modes of operation in bipolar junction transistors are and	l
	Doping is a process of	
	LED stands for	
	Full wave rectifier is used for	
٦.	True or False	
6	Resistance of a conductor varies directly with its length.	
0. 7	The property of a magnetic material by which it opposes the establishment	olishment of magnetic flu
7.	is called reluctance.	
0	Inductor is a device which stores electrical energy in magnetic fiel	d.
δ.	Energy is measured by the instrument volt meter	
9.). Higher the SWG number, smaller is the diameter of wire.	•
11	•	
	PART-B	
Answ	er any five questions only	$(5 \times 2.0 = 10)$
1.	Define specific resistance and its importance.	energy to the second
2.	What is a Zener diode and its practical usage	•
3.	Explain forward bias and reverse bias of PN device	
4.	Explain self and mutual law of electro magnetic induction.	
5.	What is FET and where it is used.	
6.	Define logic gate and mention types of gates.	,
7.	List the accessories for wiring	•
	PART-C	
A 011	ver any five questions only	$(5 \times 4.0 = 20)$
	Explain the input and output characteristics of PNP transister	
1.	Define capacitive filter and explain its applications	
2. 3.	Explain the Thevenin super position theorem.	
	Differentiate between AC series and parallel circuits.	
4. 5.	Explain the Boolean theorems.	
5. 6.	What is a rectifier and explain types of rectifiers.	
	Explain about the types of heaters.	,
7.	·	
	PART-D	$(1 \times 10.0 = 10)$
Ansv	wer any one question only	
١.	a.Explain the various passive components of electronics along windows. b.Explain the Kirchoff's laws of electricity and brief about the ba	sics of single phase
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	circuits.	n in the processing
2.	a. Explain the power and energy measurement and load estimation	i ili ilio processing

industry.

b. Explain the working principle of SCR and its applications.