

6	a	Explain the working principle of transformer?	5M
	b	Explain in detail about various transformer losses.	5M

## Q.P. Code: 19EE0240

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PART-I	3
UNIT-I	V

7	a	Explain the behavior of PN junction diode.	<b>5M</b>
	b	Distinguish between conductors, semiconductors and insulators.	<b>5</b> M
		OR	
8	a	Draw the circuit diagram of a Bridge Rectifier and explain its operation with input and output waveforms.	5M
	b	Explain Drift and Diffusion currents in a PN Junction Diode.	<b>5</b> M
		UNIT-V	
9	a	Discuss the operation of PNP transistor with diagram:	<b>5</b> M
	b	Discuss with neat diagrams, the Common Emitter Configuration and its	<b>5</b> M
		characteristics:	
		OR	
10	a	Explain in detail the transistor working as a amplifier:	<b>5M</b>
	b	A transistor operating in CB configuration has $I_{C} = 2.98$ mA, $I_{E} = 3.00$ mA and $I_{CO}$	<b>5M</b>
		=0.01 mA. What current will flow in the collector circuit for this transistor when	
		connected in CE configuration with a base current of 30µA?	
		UNIT-VI	
11	a	Explain about the JFET and draw the construction of JFET:	<b>5M</b>
	b	Explain the working of JFET as amplifier	<b>5M</b>
		OR	
12	a	Explain the static characteristics of MOSFET and draw its characteristics:	<b>5M</b>
	b	Write the application of MOSFET:	<b>5M</b>
		*** FND ***	