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Q.P. Code: 19ME0345



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5	a	Derive EMF equation of a transformer.	5M
	b	A 100 kVA, 11000/400 V, 50 Hz transformer has 40 secondary turns. Calculate	
		the number of primary turns and primary and secondary currents.	5M
		OR	
6	a	Explain constructional details of transformer.	5M
	b	Derive the condition for maximum efficiency of the transformer.	5M

PART-B UNIT-IV

7	a What is pattern? Explain various pattern materials are used to making pattern.	5M
	b What are the different pattern allowances? Explain with neat sketch.	5M
	OR MARKED STREET	
8	Classify the welding types? Explain the working of arc welding with neat sketch and mention the advantages, limitations and applications.	10M
	UNIT-V	

- 9 Write a short notes on

 (i) Kinematics of machine tool (ii) Motion transmission (iii) Automatic lathe 10M OR
- 10 What is machine tool? Explain Working and Auxiliary motions in machine tools. 10M

UNIT-VI

11 What is Automobile? Draw the layout of automobile and discuss the functions of the 10M automobile basic components.

OR 12 Examine the working of house hold refrigerator with line diagram. *** END ***

10M

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