3.	Explain the following with taking suitable example:			(a)	Describe the relationship between torque	an
	(a)	Thorrowin The	8		speed in DC Motor.	1
	(b)	Norton Theorem	7	(b)	Explain the construction and working synchronous generators in detail.	0
Ř.		Section-B			Section-D	
4.	(a)	What do you mean by Transformer? What are the different types of transformers? Explain the		Dit	fferentiate the following:	
		working of each in detail.	7	(a)	Watt meter and Energy meter	8
	(b).	What do you mean by regulation? How it is usefu		(b)	Moving iron Type and Moving Coil Types	7
A sell.		in transformer testing and calculating its efficiency? Explain.	s 9.	Exp	plain the following detail:	
go A san	Diag	A September of the second of t		(a)	Induction type Voltmeter	5
•		cuss about the following:	orc	(b)	SFU and MCB	5
	(a) (b)	Power measurement by Two Wattmeter Method	JI.((0)	ELCB and MCCB	5
	(c)	Auto Transformer Voltage and Current relations in Star Connection 5	r			

5

Section-C

How the generation of rotating magnetic field works? Explain the construction and working of three-phase induction motor in detail with suitable diagrams. Also describe the different applications of three-phase induction motor. 15

Roll No.

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24414

B. Tech. 6th Semester (AUE) Examination – May, 2019

AUTOMOTIVE POLLUTION AND CONTROL

Paper: AUE-308-F

Time: Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note: Attempt five questions in all. Question number 1 is compulsory and attempt at least one question from each Section.

- 1. Explain in brief the following:
- $2.5 \times 8 = 20$
- (a) Difference between CI and SI engine.
- (b) NO formation in SI engines.
- (c) Smoke emission in diesel engines.

24414-200-(P-3)(Q-9)(19)

P. T. O.