

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

DIPLOMA ENGG.- IVth SEMESTER-EXAMINATION – JUNE- 2012

Subject code: 346102

Date: 19/06/2012

Subject Name: Fire Electrical

Time: 02:30 pm – 05:00 pm

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. English version is considered to be Authentic

- Q.1** (a) Write Kirchhof's law and explain **07**
(b) Write down definition of following and give its unit **07**
1. Electro motive force
2. Reluctance
3. Power Factor
4. Frequency
5. Magnetic
6. Time Period
7. Resistance
- Q.2** (a) What is induced e.m.f ? write down about its types **07**
(b) Write difference between conductor, semiconductor & insulator and give its two-two examples. **07**
- OR**
- (b) Write ohm's law and get equation of series connection at resistor **07**
- Q.3** (a) Write down theory of Ideal transformer. **07**
(b) Explain about current's active and reactive components. **07**
- OR**
- Q.3** (a) Explain about alternating current passing through resistance and Inductance. **07**
(b) Explain about phase and phase difference with vector diagram **07**
- Q.4** (a) What auto transformer ? write its uses. **07**
(b) Write about induction wattmeter. **07**
- OR**
- Q. 4** (a) Write the types of circuit breaker and write about it's requirement. **07**
(b) Write down the type of cables **07**
- Q.5** (a) Write about the losses done in transformer. **07**
(b) Write about the efficiency of the transformer **07**
- OR**
- Q.5** (a) Write about electric iron. **07**
(b) Write about electric toaster. **07**

424-1	24	klcoRno inym l qo Anesmjava	07
	4	nlca pdonl VyaQya Aapo AnedreAemo j`avo.	07
		Ê. iv·¢ calk b5	
		Ê. rllK3Ns	
		Ê. Paavr f63r	
		Î. Aavk	
		Î. c6kly flks	
		Î. AavtRa5	
		Î. p tro2	
424-2	24	p6rt ivj calk b5 x0e? p6rt ivj calk b5na pkaro	07
		j`avo	
	4	Vaahk, Avahk AneA2Rvahk vCce0 tfavt j`avo t4a	07
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		ଅଥବା	
	4	Aohmno inym l qo Ane7Ê lma>Avro2nasU/m6vo.	07
424-3	24	AadxR3Ns fomRnl 4lyrl l qo	07
	4	Kr3na A63lv AnerlA63lv wago ivxeUiv·¢ p/vahnaŸ	07
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424-3	24	AoL3rne0lg iv·¢p/vah Avro2 Ane[NDkN3sma4l psar 4ay	07
		tesmjava	
	4	v63r DayagAm sa4ef6z Anef6z tfavt smjava	07
424-8	24	Ao3o 3Ns fomR x0e? tea]pyog j`avo	07
	4	[NDKxn vo3ml3r ivxel qo.	07
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424-8	24	sikR b6rna pkar j`avl tel j½rlyat ivxel qo.	07
	4	Ke l na pkaro ivxel qo.	07
424-4	24	3Ns fomRma>4 ta Vyy ivxel qo	07
	4	3Ns fomRnl kayBmta iv8el qo.	07
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424-4	24	[l63lk AaynRivxeno2 l qo.	07
	4	[l63lk 3oS3r ivxeno2 l qo.	07
