

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering – SEMESTER – 2 (NEW) – EXAMINATION – Winter-2023

Subject Code: 1326401

Date: 24-01-2024

Subject Name: Fundamentals Of Electrical And Electronics Engineering

Time: 10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make Suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Use of programmable & Communication aids are strictly prohibited.
5. Use of non-programmable scientific calculator is permitted.
6. English version is authentic.

Q.1	(a) State ohm's law and it's limitations.	03
પ્રશ્ન-૧.૧	(અ) ઓહમના નિયમ અને તેની મર્યાદાઓ જણાવો.	૦૩
	(b) Explain the difference between Conductor, Semi conductor and Insulator	04
	(બ) વાહક, અર્ધવાહક અને અવાહક વચ્ચેનો તફાવત સમજાવો.	૦૪
	(c) Derive the equation for equivalent resistance of a series connection of three resistances.	07
	(ક) ત્રણ અવરોધોનાં શ્રેણી જોડાણ માટે સમતુલ્ય અવરોધનું સૂત્ર તારવો.	૦૭
	OR	
	(c) Illustrate Kirchoff's voltage law and current law.	07
	(ક) કીર્ચોફનાં વોલ્ટેજ નિયમ અને કરંટ નિયમ સમજાવો.	૦૭
Q.2	(a) State the factors affecting resistor.	03
પ્રશ્ન-૧.૨	(અ) અવરોધને અસર કરતાં પરિબળો જણાવો.	૦૩
	(b) Compare electric circuit with magnetic circuit.	04
	(બ) ઇલેક્ટ્રિક સર્કીટ અને મેગ્નેટીક સર્કીટ સાથે તુલના કરો.	૦૪
	(c) Illustrate Faraday's law of electromagnetic induction.	07
	(ક) ફેરાડેના ઇલેક્ટ્રોમેગ્નેટીક ઇન્ડક્શનના નિયમો સમજાવો.	૦૭
	OR	
Q.2	(a) Define: 1]emf 2] Conductance 3]Capacitance	03
પ્રશ્ન-૧.૨	(અ) વ્યાખ્યા આપો. 1]ઇ એમ એફ 2]કંડક્ટન્સ 3]કેપેસિટન્સ	૦૩
	(b) Explain Fleming's Right hand rule and Left hand rule.	04
	(બ) ફ્લેમીંગના જમણા હાથનો નિયમ અને ડાબા હાથનો નિયમ સમજાવો.	૦૪
	(c) Derive the equation of equivalent inductance $L=L_1+L_2-2M$ when two inductors are connected in series opposition.	07
	(ક) જ્યારે બે ઇન્ડક્ટરને સીરીઝ ઓપોઝીશનમાં જોડવામાં આવે ત્યારે સમતુલ્ય ઇન્ડક્ટન્સનું સૂત્ર $L=L_1+L_2-2M$ તારવો.	૦૭
Q. 3	(a) Define: 1]Cycle 2]Frequency 3]Timeperiod	03
પ્રશ્ન-૧.૩	(અ) વ્યાખ્યા આપો. 1]સાયકલ 2]આવૃત્તિ 3] આવર્તનકાળ	૦૩
	(b) Explain vector representation of alternating quantity.	04
	(બ) ઓસ્કેટેઇંગ ક્વાન્ટિટીનું વેક્ટર નિરૂપણ સમજાવો.	૦૪
	(c) Define RMS value and For alternating quantity Prove that RMS value = $0.707 \times \text{Maximum value}$	07

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