

DAE / IIA - 2015
ET-115 PRINCIPLES OF ELECTRICAL ENGINEERING
ELECTRICAL TECHNOLOGY (1st Year)
PAPER-B, PART - A

Time: 30 Minutes

Marks : 15

Q.1 Encircle the correct answer.

سچے جواب کے گرد دائرہ لگائیں:

1. Maximum value of alternating current at;
 a) 90° b) 180° c) 45° d) 60°
 - آلٹرنیٹنگ کرنٹ کی زیادہ سے زیادہ قیمت اس پر ہوتی ہے۔
2. Formula to find the frequency of alternator is;
 a) $PN/60$ b) $PN/120$ c) $120/PN$ d) $120P/N$
 - آلٹرنیٹر کی فریکوئنسی معلوم کرنے کا فارمولا ہے۔
3. The value of an A.C at any given instant is;
 a) Maximum value b) Average value c) Instantaneous value d) R.M.S value
 - آلٹرنیٹنگ کرنٹ کی قیمت کسی بھی دے گئے لمحے پر ہوتی ہے۔
4. The time period of a sine wave of frequency of 50 c/s is;
 a) 5 sec. b) .02 sec. c) 25 sec. d) 50 sec.
 - ایک 50 c/s فریکوئنسی کی سائن ویو کا ٹائم پیریڈ ہے۔
5. In pure resistive circuit current and voltage with each other are;
 a) At 60° b) At 90° c) At 0° d) At 120°
 - ایک خالص مزاحمت والے سرکٹ میں کرنٹ اور وولٹیج آپس میں ہوتے ہیں۔
6. Formula to find the power in pure inductive circuit is;
 a) $P = VI \cos \phi$ b) $P = VI$ c) $P = I^2 R$ d) $P = V^2 / R$
 - ایک خالص انڈکٹنس والے سرکٹ میں پاور معلوم کرنے کا فارمولا ہے۔
7. Capacitive reactance and inductive reactance is equal at;
 a) Frequency b) Resonance c) 20° d) 90°
 - انڈکٹو ری ایکٹنس اور کیپیسٹو ری ایکٹنس اس پر برابر ہوتے ہیں۔
8. The impedance (Z) of RLC series circuit when value of X_L and X_C is equal will be equal to;
 جب X_L اور X_C برابر ہوں تو ایک RLC سیریز سرکٹ کی امپیڈنس (Z) برابر ہوتی ہے۔
 a) R b) $R + X_L + X_C$ c) $\sqrt{R^2 + X_L^2}$ d) $\sqrt{R^2 + X_C^2}$
 - ایڈمنٹنس کو ظاہر کیا جاتا ہے۔
9. Admittance is denoted by;
 a) Y b) Z c) X_L d) X_C
 - کرنٹ کا وہ جز وجود نیٹج کے ساتھ ان فیز ہوتا ہے کہلاتا ہے۔
10. The component of current which is in phase with voltage is called;
 a) Active component b) Reactive component c) Watt less component d) Out of phase component
 - پولی فیز سسٹم میں ہوتے ہیں۔
11. Poly phase system has;
 a) One phase b) Two phase c) Three phase d) Both b and c
 - حصری فیز سسٹم کا سنگل فیز سسٹم پر مشابہ ہوتا ہے۔
12. Advantage of three phase system over single phase system is;
 a) Constant power b) Self start of three phase motors c) Constant torque d) All of these
 - ایک قمری فیز چار سار میں جڑے ہوئے سسٹم کے فیز دو نیٹج 110 ہے۔ اس کے لائن دو نیٹج ہوں گے۔
13. Three phase voltage of a three phase, four wire star connected system is 110 V, the line voltage is;
 a) 440v b) 330v c) 191v d) 230v
 - سٹار کنکشن کے لیے کون سی مہارت درست ہے۔
14. Which statement is correct for star connection;
 a) $I_L = I_{PH}$ b) $V_{PH} = V_L$ c) $I_L = I_{PH} \times \sqrt{3}$ d) All of these
 - قمری فیز لوڈ پر پاور لیتا ہے۔
15. The power taken by a three phase load is;
 a) $V_L \cdot I_L \cdot \sin \phi$ b) $\sqrt{3} V_L \cdot I_L \cdot \cos \phi$ c) $V_L \cdot I_L \cdot \cos \phi$ d) None of these

Answer Key

1 (a)	2 (b)	3 (c)	4 (b)	5 (c)	6 (a)	7 (b)	8 (a)	9 (b)	10 (a)
11 (d)	12 (d)	13 (c)	14 (a)	15 (b)					

Module One Electrical Principles Past Paper

Ensheng Dong



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Table of Contents Module One Electrical Principles Past Paper

1. Understanding the eBook Module One Electrical Principles Past Paper
 - The Rise of Digital Reading Module One Electrical Principles Past Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Module One Electrical Principles Past Paper
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Module One Electrical Principles Past Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Module One Electrical Principles Past Paper
 - Personalized Recommendations
 - Module One Electrical Principles Past Paper User Reviews and Ratings
 - Module One Electrical Principles Past Paper and Bestseller Lists
5. Accessing Module One Electrical Principles Past Paper Free and Paid eBooks
 - Module One Electrical Principles Past Paper Public Domain eBooks
 - Module One Electrical Principles Past Paper eBook Subscription Services
 - Module One Electrical Principles Past Paper Budget-Friendly Options
6. Navigating Module One Electrical Principles Past Paper eBook Formats
 - ePub, PDF, MOBI, and More
 - Module One Electrical Principles Past Paper Compatibility with Devices
 - Module One Electrical Principles Past Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Module One Electrical Principles Past Paper
 - Highlighting and Note-Taking Module One Electrical Principles Past Paper
 - Interactive Elements Module One Electrical Principles Past Paper
8. Staying Engaged with Module One Electrical Principles Past Paper

- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Module One Electrical Principles Past Paper
9. Balancing eBooks and Physical Books Module One Electrical Principles Past Paper
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Module One Electrical Principles Past Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Module One Electrical Principles Past Paper
- Setting Reading Goals Module One Electrical Principles Past Paper
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Module One Electrical Principles Past Paper
- Fact-Checking eBook Content of Module One Electrical Principles Past Paper
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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