

LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF ELECTRICAL/ELECTRONICS AND COMPUTER
ENGINEERING

2016/2017 SEMESTER EXAMINATION

COURSE	TITLE:	ELECTRICAL	ENGINEERING
COURSE CODE:	EEC 115/EEC 112	SCIENCE I	NO OF QUESTIONS : 6
FOR WHOM:	ND YR I	CE, EE	TIME ALLOWED: 2 HRS
ANSWER ANY			PT INSTRUCTIONS:

FOUR QUESTIONS

- (a) State Ohms law

(b) Determine the Two(2) voltages drops across R_1 and R_2 in a circuit where $R_1 = 1.8\Omega$, $R_2 = 2.2\Omega$ and $V = 12v$

(c) State kirchoffs current law.
- (a) Define Electric Field Strength

(b) What is Relative Permutivity

(c) A wire of diameter 0.6mm, resistivity 1.1×10^{-8} has a resistance of 44Ω calculate the length of the wire.
- (a) Give two examples each of conductors and semi conductors

(b) What is the difference between AC current and DC?

(c) Write down the formula for
 (i) Current (ii) Voltage (iii) Resistance
- (a) Define Mathematically Temperature coefficient of resistance (α)

(b) State Joules law

(c) Calculate the workdone in moving through a distance of 25m by a force of 20N which acts in the direction of the motion of the body.
- (a) Two plates each of area $5cm^2$, are placed parallel to each other and very close together in space between the plates. and a charge of 15×10^{-6} is stored on the plates. Calculate the electric flux density the space between the plates.

(b) The power expended in a certain resistor is given by I^2R . If the power expended in the resistor is 175W when the current is 5A, calculate the power in the resistor when.
 (i) Both current and resistance are double
 (ii) Current is half and resistance double
 (iii) When current is double and resistance half
- (a) A coil has a resistance of 50Ω at $0^\circ C$. If the the temperative coefficient of the coil is $0.0043\Omega/1^\circ C$, determine the resistance of the coil at $25^\circ C$.

(b) An Electric kettle takes 2kw at 2400. Calculate
 (i) The current (ii) The resistance of heating element

(c) An electric motor develops 5kw at the speed of 100 rev/mn. Calculate
 (i) the worth done in 30 mins
 (ii) in the kilowaff hour

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**Shuai Liu, Matt Glowatz, Marco
Zappatore, Honghao Gao, Bing
Jia, Alberto Bucciero**



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Frontiers of Manufacturing Science and Measuring Technology III Wen Pei Sung, Jimmy Chih Ming Kao, Ran Chen, 2013-09-03 Selected peer reviewed papers from the 2013 3rd International Conference on Frontiers of Manufacturing Science and Measuring Technology ICFMM 2013 July 30 31 2013 LiJiang China **Life System Modeling and Intelligent Computing** Kang Li, Li Jia, Xin Sun, Minrui Fei, George W. Irwin, 2010-09-14 The 2010 International Conference on Life System Modeling and Simulation LSMS 2010 and the 2010 International Conference on Intelligent Computing for Sustainable Energy and Environment ICSEE 2010 were formed to bring together researchers and practitioners in the fields of life system modeling simulation and intelligent computing applied to worldwide sustainable energy and environmental applications A life system is a broad concept covering both micro and macro components ranging from cells tissues and organs across to organisms and ecological niches To comprehend and predict the complex behavior of even a simple life system can be extremely difficult using conventional approaches To meet this challenge a variety of new theories and methodologies have emerged in recent years on life system modeling and simulation Along with improved understanding of the behavior of biological systems novel intelligent computing paradigms and techniques have emerged to handle complicated real world problems and applications In particular intelligent computing approaches have been valuable in the design and development of systems and facilities for achieving sustainable energy and a sustainable environment the two most challenging issues currently facing humanity The two LSMS 2010 and ICSEE 2010 conferences served as an important platform for synergizing these two research streams The Electrical Journal, 1906 **The Electrical Review**, 1909 Advanced Intelligent Computing Theories and Applications De-Shuang Huang, Zhongming Zhao, Vitoantonio Bevilacqua, Juan Carlos Figueroa, 2010-08-27 The International Conference on Intelligent Computing ICIC was formed to provide an annual forum dedicated to the emerging and challenging topics in artificial intelligence machine learning pattern recognition image processing bioinformatics and computational biology It aims to bring together researchers and practitioners from both academia and industry to share ideas problems and solutions related to the multifaceted aspects of intelligent computing ICIC 2010 held in Changsha China August 18 21 2010 constituted the 6th International Conference on Intelligent Computing It built upon the success of ICIC 2009 ICIC 2008 ICIC 2007 ICIC 2006 and ICIC 2005 that were held in Ulsan Korea Shanghai Qingdao Kunming and Hefei China respectively This year the conference concentrated mainly on the theories and methodologies as well as the emerging applications of intelligent computing Its aim was to unify the picture of contemporary intelligent computing techniques as an integral concept that highlights the trends in advanced computational intelligence and bridges theoretical research with applications Therefore the theme for this conference was Advanced Intelligent Computing Technology and Applications Papers focusing on this theme were solicited addressing theories methodologies and applications in science and technology **Proceedings of 2017 Chinese Intelligent Systems Conference** Yingmin

Jia,Junping Du,Weicun Zhang,2017-09-19 This book presents selected research papers from CISC 17 held in Mudanjiang China The topics covered include Multi agent system Evolutionary Computation Artificial Intelligence Complex systems Computation intelligence and soft computing Intelligent control Advanced control technology Robotics and applications Intelligent information processing Iterative learning control Machine Learning and etc Engineers and researchers from academia industry and government can gain valuable insights into solutions combining ideas from multiple disciplines in the field of intelligent systems Energy Science and Applied Technology Zhigang Fang,2015-11-17 Energy Science and Applied Technology includes contributions on a wide range of topics Technologies in geology mining oil and gas exploration and exploitation of deposits Energy transfer and conversion materials and chemical technologies Environmental engineering and sustainable development Electrical and electronic technology power system **e-Learning, e-Education, and Online Training** Shuai Liu,Matt Glowatz,Marco Zappatore,Honghao Gao,Bing Jia,Alberto Bucciero,2018-06-29 This book constitutes the proceedings of the 4rd International Conference on e Learning e Education and Online Training eLEOT 2018 held in Shanghai China in April 2018 The 49 revised full papers presented were carefully reviewed and selected from 120 submissions They focus on most recent and innovative trends in this broad area ranging from distance education to collaborative learning from interactive learning environments to the modelling of STEM Science Technology Mathematics Engineering curricula **The Electrical World and Engineer** ,1905 *The Electrician* ,1906

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 - The Rise of Digital Reading Polytechnic Exam Paper Electrical Bing
 - Advantages of eBooks Over Traditional Books
2. Identifying Polytechnic Exam Paper Electrical Bing
 - 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 Polytechnic Exam Paper Electrical Bing
 - User-Friendly Interface
4. Exploring eBook Recommendations from Polytechnic Exam Paper Electrical Bing
 - Personalized Recommendations
 - Polytechnic Exam Paper Electrical Bing User Reviews and Ratings
 - Polytechnic Exam Paper Electrical Bing and Bestseller Lists
5. Accessing Polytechnic Exam Paper Electrical Bing Free and Paid eBooks
 - Polytechnic Exam Paper Electrical Bing Public Domain eBooks
 - Polytechnic Exam Paper Electrical Bing eBook Subscription Services
 - Polytechnic Exam Paper Electrical Bing Budget-Friendly Options
6. Navigating Polytechnic Exam Paper Electrical Bing eBook Formats

- ePub, PDF, MOBI, and More
- Polytechnic Exam Paper Electrical Bing Compatibility with Devices
- Polytechnic Exam Paper Electrical Bing Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Polytechnic Exam Paper Electrical Bing
 - Highlighting and Note-Taking Polytechnic Exam Paper Electrical Bing
 - Interactive Elements Polytechnic Exam Paper Electrical Bing
- 8. Staying Engaged with Polytechnic Exam Paper Electrical Bing
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Polytechnic Exam Paper Electrical Bing
- 9. Balancing eBooks and Physical Books Polytechnic Exam Paper Electrical Bing
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Polytechnic Exam Paper Electrical Bing
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Polytechnic Exam Paper Electrical Bing
 - Setting Reading Goals Polytechnic Exam Paper Electrical Bing
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Polytechnic Exam Paper Electrical Bing
 - Fact-Checking eBook Content of Polytechnic Exam Paper Electrical Bing
 - 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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