

VIVA VOCE QUESTIONS - CURRENT ELECTRICITY

Q.1. Define electric current ?

Ans. The rate of flow of electric charge with time is called current.

Mathematically $I = \frac{q(\text{charge})}{t(\text{time})}$

Q.2. What is SI unit of electric current ?

Ans. The SI unit of electric current is ampere.

Q.3. What is meant by the term electric potential difference ?

Ans. The electric potential difference between two points in an electric field is defined as the work done to move one coulomb positive charge from one point to the other.

Q.4. What is a conductor ?

Ans. It is a substance which allows the flow of the electric charge through itself e.g. Copper, Silver etc.

Q.5. Give example of a good non-metallic conductor.

Ans. Graphite

Q.6. State Ohm's law.

Ans. OHM'S LAW states that if the temperature of a conductor is kept constant, the current flowing through the conductor is directly proportional to the potential difference across its ends.

Q.7. What is meant by the term electric resistance ?

Ans. The resistance of a conductor is defined as the measure of its ability to oppose the flow of electric current through itself.

Q.8. What is SI unit of resistance ? Define it.

Ans. ohm. One ohm is the resistance of a conductor which allows 1 ampere current to flow through itself when a potential difference of 1 volt is applied across its ends.

Q.9. State the factors on which the resistance of a conductor depends.

Ans. The resistance of a conductor depends on (i) its length (ii) area of cross-section (iii) nature of the material of the conductor.

Q.10. Define the term resistivity. Give its SI unit.

Ans. The resistivity of the material of a conductor is numerically equal to the resistance offered by the conductor of length one metre and uniform area of cross-section 1 m². Its SI unit is ohm m.

Q.11. Name an element which in different allotropic forms acts as a good conductor and a good insulator.

Ans. Carbon (Conductor as graphite and insulator as diamond).

Q.12. What is an ohmic resistance ?

Ans. The resistance which obeys Ohm's law is called ohmic resistance.

Q.13. What is the shape of V v/s I graph for an ohmic conductor ?

Ans. The graph is a straight line. So the ohmic conductor is also called a linear device.

Q.14. What is a non-linear device ? Give an example.

Ans. A device is said to be non-linear if V v/s I graph for it is a curve e.g. pn junction.

Course Viva Questions For Ece

RJ Alexander

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Resilient Control Architectures and Power Systems Craig Rieger, Ronald Boring, Brian Johnson, Timothy McJunkin, 2022-01-26 Master the fundamentals of resilient power grid control applications with this up to date resource from four industry leaders Resilient Control Architectures and Power Systems delivers a unique perspective on the singular challenges presented by increasing automation in society In particular the book focuses on the difficulties presented by the increased automation of the power grid The authors provide a simulation of this real life system offering an accurate and comprehensive picture of how a power control system works and even more importantly how it can fail The editors invite various experts in the field to describe how and why power systems fail due to cyber security threats human error and complex interdependencies They also discuss promising new concepts researchers are exploring that promise to make these control systems much more resilient to threats of all kinds Finally resilience fundamentals and applications are also investigated to allow the reader to apply measures that ensure adequate operation in complex control systems Among a variety of other foundational and advanced topics you'll learn about The fundamentals of power grid infrastructure including grid architecture control system architecture and communication architecture The disciplinary fundamentals of control theory human system interfaces and cyber security The fundamentals of resilience including the basis of resilience its definition and benchmarks as well as cross architecture metrics and considerations The application of resilience concepts including cyber security challenges control challenges and human challenges A discussion of research challenges facing professionals in this field today Perfect for research students and practitioners in fields concerned with increasing power grid automation Resilient Control Architectures and Power Systems also has a place on the bookshelves of members of the Control Systems Society the Systems Man and Cybernetics Society the Computer Society the Power and Energy Society and similar organizations

Digital Technologies and Early Childhood in China Ilene R. Berson, Wenwei Luo, Michael J. Berson, Chuanmei Dong, 2024-01-04 This book explores the integration of digital technologies in early childhood education in China analyzing the influence of traditional values curricular approaches and socio political changes It reviews technology's impact on policies and practices highlighting challenges and insights for enhancing early education

New Europe's New Development Aid Balázs Szent-Iványi, Simon Lightfoot, 2015-04-17 This book examines the international development policies of five East Central European new EU member states the Czech Republic Hungary Poland Slovakia and Slovenia These countries turned from being aid recipients to donors after the turn of the millennium in the run up to EU accession in 2004 The book explains the evolution subsequent to EU accession and current state of foreign aid policies in the region and the reasons why these deviate from many of the internationally agreed best practices in development cooperation It argues that after the turn of the millennium a Global Consensus has emerged on how to make foreign aid more effective for development A comparison between the elements of the Global Consensus and the performance of the five countries reveals

that while they have generally implemented little of these recommendations there are also emerging differences between the countries with the Czech Republic and Slovenia clearly aspiring to become globally responsible donors Building on the literatures on foreign policy analysis international socialization and interest group influence the book develops a model of foreign aid policy making in order to explain the general reluctance of the five countries in implementing international best practices and also the differences in their relative performance

Fertility and Family Surveys in Countries of the ECE Region

Ferenc Kamarás,United Nations. Economic Commission for Europe,United Nations Population Fund,1999

Partnership reproductive behaviour patterns have undergone major shifts over much of Europe North America during the past three decades leading to the coexistence of a variety of family forms These country reports shed light on the development in fertility partnership formation provides a deeper understanding of the subject by measuring possible explanatory factors

Blended Learning Environments for Adults: Evaluations and Frameworks

Anastasiades, Panagiotes S.,2012-04-30 This book demonstrates the view that Information and Communication Technologies should not be considered as a neutral teaching medium but instead be implemented under pedagogical conditions aiming at the development of critical thinking through their creative integration into the social and cultural context

Resources in Education ,1993

Fertility and Family Surveys in Countries of the ECE Region Jan Latten,Arie de Graaf,United Nations Population Fund,1997 Partnership reproductive behaviour patterns have undergone major shifts over much of Europe North America during the past three decades leading to the coexistence of a variety of family forms These country reports shed light on the development in fertility partnership formation provides a deeper understanding of the subject by measuring possible explanatory factors

Fertility and Family Surveys in Countries of the ECE Region Turid Noack,Lars Østby,1996

Partnership reproductive behaviour patterns have undergone major shifts over much of Europe North America during the past three decades leading to the coexistence of a variety of family forms These country reports shed light on the development in fertility partnership formation provides a deeper understanding of the subject by measuring possible explanatory factors

ECE ,2001 **ECE Highlights** ,2001 **ECE Highlights** United Nations. Economic Commission for

Europe,1989-06 **Research Anthology on Developments in Gamification and Game-Based Learning** Management

Association, Information Resources,2021-11-26 Technology has increasingly become utilized in classroom settings in order to allow students to enhance their experiences and understanding Among such technologies that are being implemented into course work are game based learning programs Introducing game based learning into the classroom can help to improve students communication and teamwork skills and build more meaningful connections to the subject matter While this growing field has numerous benefits for education at all levels it is important to understand and acknowledge the current best practices of gamification and game based learning and better learn how they are correctly implemented in all areas of education The Research Anthology on Developments in Gamification and Game Based Learning is a comprehensive reference

source that considers all aspects of gamification and game based learning in an educational context including the benefits difficulties opportunities and future directions Covering a wide range of topics including game concepts mobile learning educational games and learning processes it is an ideal resource for academicians researchers curricula developers instructional designers technologists IT specialists education professionals administrators software designers students and stakeholders in all levels of education **CURA Reporter** ,2013 **Fertility and Family Surveys in Countries of the ECE Region** Dunja Obersnel Kveder,United Nations. Economic Commission for Europe,United Nations Population Fund,2001 Well focused sample surveys can greatly enhance the demographers ability to document and understand various aspects of partnership and reproductive behaviour In the late 1980s the Population Activities Unit PAU of the United Nations Economic Commission for Europe initiated a long term sample survey programme The aim was to conduct comparable Fertility and Family Surveys in about 20 countries create Standard Recode Files prepare Standard Country Reports carry out a programme of cross country comparative studies This publication on Slovenia is the 18th in the series of Standard Country Reports Foreign Affairs Bulletin ,1989 Daily Report ,1973 *Bilingualism and Bilinguality* Kirk Michael Wheeler,1998 **The United Nations Economic Commission for Europe** Václav Kostelecký,1989 **The Public Schools Year Book** ,1893 *National Household Education Survey, 1991 ,1992*

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