

Cork Institute of Technology

Bachelor of Engineering in Building Services Engineering – Stage 2

(EBSEN_7_Y2)

Autumn 2008

Electrotechnology

(Time: 3 Hours)

Answer THREE question from Section A
and TWO question from Section B
Use separate answer book for each Section
All question carry equal marks

Examiner: Mr. S. Boljevic
Dr. M. Smyth
Mr. D. Leonard

Section A

- Q1. A series circuit consists of resistance $10\ \Omega$, inductance 0.1H and capacitor of capacitance of $150\mu\text{F}$ is connected across a 200 V , 50 Hz supply. (20 Marks)
Draw the circuit and calculate:
- (a) Importance of the circuit.
 - (b) The current through the circuit.
 - (c) Power factor.
 - (d) Voltage across the coil.
 - (e) Voltage across the capacitor.
 - (f) Draw the phasor diagram showing voltage across resistor and capacitor.
- Q2. A coil of resistance $100\ \Omega$ and inductance 0.15 H is connected to a 250 V , 50 Hz supply. (20 Marks)
Calculate:
- (a) Capacitance of the capacitor to be connected in parallel with the coil so that overall p.f is unity.
 - (b) Total active power consumed often capacitor is connected.
 - (c) Explain what is meant by power factor. Support your explanation with practice example.

Department Of Basic Education Electrotechnology

November 2014 Exam Paper

**Ade Gafar Abdullah, Vina Adriany, Cep
Ubad Abdullah**



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Daily Graphic Ransford Tetteh, 2014-03-24 **iCEER2014-McMaster Digest** Mohamed Bakr, Ahmed Elsharabasy, 2014-11-18 International Conference on Engineering Education and Research **GGSIU BBA Exam Guide 2022** Arihant Experts, 2021-05-12

1 The book is a complete study guide for the preparation of GGSIPU BBA 2 The book is divided into 5 main sections 3 2 sections tests are accompanied after every section 4 Theories given in every chapter is well explained in detail 5 Model Solved Papers Practice Papers and Solved Papers for complete practice The Perfect Study Resource for the GGSIPU BBA Common Entrance Exam 2021 is a well organized book that comprehensively covers all topics as per the pattern of GGSIPU CET BBA It is divided into five sections giving complete coverage to the syllabus At the end of every section there are 2 section tests for the quick revision of the concepts The Book also contains Model Papers Practice Papers and Solved Papers giving the complete practice of the chapters Comprehensive and approachable it is a perfect book to guide you for your upcoming exam TOC Model Solved Paper 2020 2018 Solved Paper 2017 2016 English Language and Comprehension General Awareness Logical Analytical Ability Business Aptitude Management Practice Sets 1 3

Developing Technology Mediation in Learning Environments Soares, Filomena, Lopes, Ana Paula, Brown, Ken, Uukkivi, Anne, 2019-12-27 Most technologies have been harnessed to enable educators to conduct their business remotely However the social context of technology as a mediating factor needs to be examined to address the perceptions of barriers to learning due to the lack of social interaction between a teacher and a learner in such a setting Developing Technology Mediation in Learning Environments is an essential reference source that widens the scene of STEM education with an all encompassing approach to technology mediated learning establishing a context for technology as a mediating factor in education Featuring research on topics such as distance education digital storytelling and mobile learning this book is ideally designed for teachers IT consultants educational software developers researchers administrators and professionals seeking coverage on developing digital skills and professional knowledge using technology **Borderless Education as a Challenge in the 5.0 Society** Ade Gafar Abdullah, Vina Adriany, Cep Ubad Abdullah, 2020-10-21 These proceedings contain a selection of papers presented at the 3rd International Conference on Educational Sciences organized on 16 November 2019 It covers themes such as philosophy and policy of teacher education curriculum teaching and learning approaches learner s characteristics in the digital era global citizenship education vocational education teacher education qualification framework management supervision and assessment lifelong learning for all diversity in education equality of educational opportunity vocational and entrepreneurship education and education in the industry 4 0 era *Industry 4.1* Fan-Tien Cheng, 2021-10-26 Industry 4 1 Intelligent Manufacturing with Zero Defects Discover the future of manufacturing with this comprehensive introduction to Industry 4 0 technologies from a celebrated expert in the field Industry 4 1 Intelligent Manufacturing with Zero Defects delivers an in depth exploration of the functions of intelligent manufacturing and its applications and

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Decarbonisation and Digitization of the Energy System Ashwani Kumar, S. N. Singh, Pradeep Kumar, 2024-01-11 The book contains select proceedings of the International Conference on Smart Grid Energy Systems and Control SGESC 2023 The proceedings are divided into 02 volumes and this volume focuses on the Decarbonisation and Digitization of the Energy System The book covers the important topics on the smart grid microgrids and control aspects optimal energy scheduling distributed generation wind energy for remote electrification forecasting of loads and daily energy demand reactive power management Volt Var control reactive power procurement and ancillary services the role of FACTS devices for reactive power

management and control feasibility study of PV Wind hybrid systems electricity markets stability of the power system network energy storage systems and electrical vehicles This book is a unique collection of 27 chapters from different areas with a common theme and will be immensely useful to academic researchers and practitioners in the industry **Electrical Engineering** ,1958 *Yearbook of International Organizations 2013-2014 (Volumes 1a-1b)* Union Of International Associations,Union of International Associations,2013-06-21 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events *Documentation Abstracts* ,1977 *Forthcoming Books* Rose Army,1997 **Profiles of American Colleges** Barron's Educational Series,2010-07-01 The latest information on enrollments tuition and fees academic programs campus environment available financial aid and much more make the 29th edition of Profiles of American Colleges America s most comprehensive and authoritative source for college bound high school students Every accredited four year college in the United States is profiled and readers are directed to a brand new Barron s Web site featuring a FREE ACCESS college search engine that presents exclusive on line information to help students match their academic plans and aptitudes with the admission requirements and academic programs of each school The book presents profiles of more than 1 650 colleges each profile including details on Admission requirements Library and computer facilities Admissions procedures for freshmen Campus safety and security Thumbnail descriptions of faculty Requirements for a degree Athletic facilities Extracurricular activities E mail addresses College fax numbers and web sites Admissions Contacts and more Schools are rated according to Barron s reliable competitiveness scale which ranges from Noncompetitive to Most Competitive The book s tinted pages section presents an Index of College Majors that lists all available major study programs at every school Also profiled are excellent colleges in Canada and several other countries as well as brief profiles of religious colleges and American colleges based in foreign countries **Who's who in America** ,1960 **Books in Print** ,1977

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Table of Contents Department Of Basic Education Electrotechnology November 2014 Exam Paper

1. Understanding the eBook Department Of Basic Education Electrotechnology November 2014 Exam Paper
 - The Rise of Digital Reading Department Of Basic Education Electrotechnology November 2014 Exam Paper
 - Advantages of eBooks Over Traditional Books
2. Identifying Department Of Basic Education Electrotechnology November 2014 Exam 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 Department Of Basic Education Electrotechnology November 2014 Exam Paper
 - User-Friendly Interface
4. Exploring eBook Recommendations from Department Of Basic Education Electrotechnology November 2014 Exam

Paper

- Personalized Recommendations
 - Department Of Basic Education Electrotechnology November 2014 Exam Paper User Reviews and Ratings
 - Department Of Basic Education Electrotechnology November 2014 Exam Paper and Bestseller Lists
5. Accessing Department Of Basic Education Electrotechnology November 2014 Exam Paper Free and Paid eBooks
- Department Of Basic Education Electrotechnology November 2014 Exam Paper Public Domain eBooks
 - Department Of Basic Education Electrotechnology November 2014 Exam Paper eBook Subscription Services
 - Department Of Basic Education Electrotechnology November 2014 Exam Paper Budget-Friendly Options
6. Navigating Department Of Basic Education Electrotechnology November 2014 Exam Paper eBook Formats
- ePub, PDF, MOBI, and More
 - Department Of Basic Education Electrotechnology November 2014 Exam Paper Compatibility with Devices
 - Department Of Basic Education Electrotechnology November 2014 Exam Paper Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Department Of Basic Education Electrotechnology November 2014 Exam Paper
 - Highlighting and Note-Taking Department Of Basic Education Electrotechnology November 2014 Exam Paper
 - Interactive Elements Department Of Basic Education Electrotechnology November 2014 Exam Paper
8. Staying Engaged with Department Of Basic Education Electrotechnology November 2014 Exam Paper
- Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Department Of Basic Education Electrotechnology November 2014 Exam Paper
9. Balancing eBooks and Physical Books Department Of Basic Education Electrotechnology November 2014 Exam Paper
- Benefits of a Digital Library
 - Creating a Diverse Reading Collection Department Of Basic Education Electrotechnology November 2014 Exam Paper
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Department Of Basic Education Electrotechnology November 2014 Exam Paper

- Setting Reading Goals Department Of Basic Education Electrotechnology November 2014 Exam Paper
- Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Department Of Basic Education Electrotechnology November 2014 Exam Paper
 - Fact-Checking eBook Content of Department Of Basic Education Electrotechnology November 2014 Exam 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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