



Council for Technical Education and Vocational Training
Office of the Controller of Examinations
Sanothimi, Bhaktapur

Regular/Back/Special Exam-2080, Mangsir/Poursh

Program: Diploma in IT Engineering

Full Marks: 80

Year/Part: I/II (2016)

Pass Marks: 32

Subject: Electrical Engineering

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.



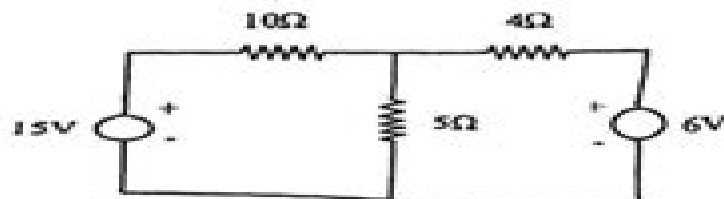
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Attempt Any Five questions.

1. a) Define the terms: i) Current ii) Voltage [4x2=8]
iii) Power iv) Energy
- b) State and explain Faraday's law of electromagnetic induction. [4]
- c) State and explain KVL with example. [4]
2. a) Using node voltage method find the current in the 3Ω resistor. [8]



- b) Using Thevenin's theorem calculate the current through 4Ω resistor. [8]



3. a) What do you mean by transformer? Explain the working principle of single phase transformer. [8]
- b) Explain the construction and working principle of 3ϕ induction motor in brief. [8]



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Cont.....

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Diploma In Electrical Question Paper 2nd Sem:

ELECTRONICS - I K. Shashidhar, 2012-05-25 Electronics I is intended to be used as a text book for II Semester Diploma in Electrical and Electronics Engineering The motivation for writing this book came when I felt the absence of a suitable text for Polytechnic students This book is meant to fill the void It is designed for comprehensively covering all topics relevant to the subject Each and every topic has been explained in a very simple language as per the syllabus prescribed by the Board of Technical Education To enhance the utility of the book important points and review questions Fill in the blank and descriptive type have been included at the end of each chapter Model question papers have been provided to help students prepare better for the semester examinations It is hoped that this book will be of immense use to teachers and students of Polytechnics Any constructive suggestions from teachers and students for improving the contents will be warmly appreciated

Early Warning Systems and Targeted Interventions for Student Success in Online Courses Glick, Danny, Cohen, Anat, Chang, Chi, 2020-06-26 Online learning has increasingly been viewed as a possible way to remove barriers associated with traditional face to face teaching such as overcrowded classrooms and shortage of certified teachers While online learning has been recognized as a possible approach to deliver more desirable learning outcomes close to half of online students drop out as a result of student related course related and out of school related factors e g poor self regulation ineffective teacher student student student and platform student interactions low household income Many educators have expressed concern over students who unexpectedly begin to struggle and appear to fall off track without apparent reason A well implemented early warning system therefore can help educators identify students at risk of dropping out and assign and monitor interventions to keep them on track for graduation Despite the popularity of early warning systems research on their design and implementation is sparse Early Warning Systems and Targeted Interventions for Student Success in Online Courses is a cutting edge research publication that examines current theoretical frameworks research projects and empirical studies related to the design implementation and evaluation of early warning systems and targeted interventions and discusses their implications for policy and practice Moreover this book will review common challenges of early warning systems and dashboard design and will explore design principles and data visualization tools to make data more understandable and therefore more actionable Highlighting a range of topics such as curriculum design game based learning and learning support it is ideal for academicians policymakers administrators researchers education professionals instructional designers data analysts and students

The Paper Industry, 1926 **Developing Teaching Competencies for Pedagogical and Curricular Innovation** Cruz, Mário, Queirós, Ricardo, Mascarenhas,

Daniela, 2025-11-11 In an era defined by technological advancement and evolving learner needs the role of educators shifts from content delivery to facilitating meaningful student centered learning experiences Developing teaching competencies that support pedagogical and curricular innovation is critical for educators fostering critical thinking creativity and lifelong

learning These competencies include skills in instructional design digital literacy inclusive practices and reflective teaching By cultivating these abilities educators may better design curricula implement active learning strategies and adapt to diverse educational contexts Further examination of the competencies required for effective teaching may reveal new strategies to empower educators drive innovation and improve pedagogy and curriculum Developing Teaching Competencies for Pedagogical and Curricular Innovation delves into the evolving intersection of teaching competencies emerging technologies and curriculum design presenting an integrated perspective on the future of education It explores modern pedagogical practices competency based teaching approaches and effective deployments of newest technologies to enhance learning experiences This book covers topics such as flipped classrooms personalized learning and teacher education and is a useful resource for educators academicians researchers and scientists *Daily Graphic* Yaw Boadu-Ayeboafah,2005-12-10

Proceedings American Society for Engineering Education. Conference,1995 *The Electrical World* ,1893
Electrical World ,1893 **Thisweek** ,1989 Resources in Education ,1977 *Vocational-technical Learning Materials* Bruce Reinhart,1974 **Electrical & Electronics Abstracts** ,1997 **Catalogue** University of Wisconsin,1893
CoED. ,1981 Bulletin University of Wisconsin,1953 **Electrical Engineering** ,1963 **Advances in Instrumentation** ,1978 **Clinical Engineering Handbook** Joseph F. Dyro,2004-08-27 As the biomedical engineering field expands throughout the world clinical engineers play an ever more important role as the translator between the worlds of the medical engineering and business professionals They influence procedure and policy at research facilities universities and private and government agencies including the Food and Drug Administration and the World Health Organization Clinical engineers were key players in calming the hysteria over electrical safety in the 1970s and Y2K at the turn of the century and continue to work for medical safety This title brings together all the important aspects of Clinical Engineering It provides the reader with prospects for the future of clinical engineering as well as guidelines and standards for best practice around the world **Digest** IEEE Antennas and Propagation Society. International Symposium,2002 Nature Sir Norman Lockyer,1896

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