



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.....

Diploma In Electrical Question Paper 2nd Sem

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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

Resources in Education ,1977-10 **Proceedings** American Society for Engineering Education. Conference, 1995 **Principles of Electric Machines and Power Electronics** P. C. Sen, 1997 The step by step presentation allows readers to fully understand each topic before moving on to the next

Proceedings Joseph M. Biedenbach, Lawrence P. Grayson, 1973 **Electrical World** ,1893 **Lightguides and Their Applications II** Jan Wójcik, Waldemar Wójcik, 2004 Proceedings of SPIE present the original research papers presented at

SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature Proceedings of National Educational Computing Conference (NECC). ,1980

1996 IEEE AFRICON, 4th AFRICON Conference in Africa, 25-27 September 1996, Tutorials on 24 September 1996 ,1996 *Proceedings* ,1996 The Paper Industry ,1926 Proceedings North Dakota Academy of Science,1990
1976 annual meeting held jointly with the Minnesota Academy of Science Proceedings of the American Society for Engineering Education American Society for Engineering Education,1958 *Proceedings of the IRE*. Institute of Radio Engineers,1960 **IRE Transactions on Education** ,1958 **Proceedings** American Society for Engineering Education,1959 **Architectural Transformations in the Islamic World** ,1986 **Courses and Programs** Iowa State University,1997 *CoED.* ,1981

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