

Council for Technical Education and Vocational Training  
Office of the Controller of Examinations  
Sanothimi, Bhaktapur  
Regular/Back Exam-2074, Shrawan/Bhadra

Program: Diploma in Computer and Information Technology Full Marks: 80  
Year/Part: III [New Course] Pass Marks: 32  
Subject: Electrical Engineering Time: 3:00 hrs

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

Attempt Any Five Questions.

1. Define (Any Five) [5x2=10]

- i) Magnetic field      iii) Flux density      v) Frequency
- ii) Magnetic flux      iv) Field intensity      vi) Electric power
- b) Define and explain Faraday law of electro-magnetic induction.

2. a) State and explain Ohm's law with suitable example. [5]

- b) Determine the current flowing through 3Ω resistor in the network shown below using Thevenin's theorem. [6]



3. a) State and explain superposition theorem. [5]

- b) Using nodal analysis, write down node voltage equation for the circuit to find the current through 25Ω branch. [5]



b) An alternating current  $i$  is given by  $i = 141.4 \sin 314t$ . Find i) The Maximum Value [5]

ii) Frequency

iii) Time period

iv) Instantaneous Value when  $t$  is 3ms

c) A battery of 24V is applied across terminal AB of the circuit shown in figure below. Find: [5]

- i) The current in 2Ω resistor ii) Voltage across 6Ω resistor.



4. a) Explain the construction and working principle of single phase transformer. [8]

- b) Explain the construction and principle of 3Φ Induction motor in brief. [4+4=8]

5. a) A coil of resistance 100Ω and inductance 100H is connected in series with a 100F capacitor. The circuit is connected to a 10V variable frequency supply. Calculate: i) the resonance frequency [8]

ii) Current at resonance

iii) Voltage across L and C at resonance

iv) Q factor of the circuit.

b) What are the advantages of 3Φ system? Explain about the star and delta connection of 3Φ system. [3+5=8]

6. Write short notes on: (Any Four) [4x4=16]

a) Hysteresis loop

b) Dry cell

c) Series and parallel connection of cell

d) Resonance in RLC series circuit

e) AC and DC, AC and DC

f) Single phase AC current

Good Luck!

# Diploma In Electrical Question Paper 2nd Sem

**Christian Drosten**

## **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 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

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**Journal of the National Education Association** National Education Association of the United States,1922 **The**

**Congregationalist** ,1921 **Resources in Education** ,1992 **Electrical & Electronics Abstracts** ,1989 **The**

**Nation** ,1878 **The Sanitary Record and Journal of Municipal Engineering** ,1912 **Scientific American** ,1901

Religious Remembrancer ,1918    **World Survey of Education** ,1966    Journal of Education ,1892    **Association Medical Journal** ,1904    **British Medical Journal** ,1904    **Index to the Times of India** ,1975    Index to the Times of India ,Bombay ,1975-07

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