

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) Full and half wave rectifiers

- f) Single phase AC motor

Good Luck!

# Diploma In Electrical Question Paper 2nd Sem

**G Psacharopoulos**

## **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

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