

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:	I/II [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. [6]

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]



c) State and explain superposition theorem. [5]

3. a) 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 Maxim Value [4]

- 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. [6]

- 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: [6]

- i) the resonance frequency
 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) Single phase AC motor | |

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SJ Ball



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