

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  $3\Omega$  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  $25\Omega$  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  $2\Omega$  resistor ii) Voltage across  $6\Omega$  resistor.



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

b) Explain the construction and principle of  $3\phi$  induction motor in brief. [4+4=8]

5. a) A coil of resistance  $100\Omega$  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 [6]

- ii) Current at resonance  
iii) Voltage across L and C at resonance  
iv) Q factor of the circuit.

b) What are the advantages of  $3\phi$  system? Explain about the star and delta connection of  $3\phi$  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                  |                                    |

# Diploma In Electrical Question Paper 2nd Sem

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