

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

<b>Program:</b>	Diploma in Computer and Information Technology	<b>Full Marks:</b> 80
<b>Year/Part:</b>	I/II [New Course]	<b>Pass Marks:</b> 32
<b>Subject:</b>	Electrical Engineering	<b>Time:</b> 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
  - ii) Magnetic flux
  - iii) Flux density
  - iv) Field intensity
  - v) Frequency
  - vi) Electric power
2. a) State and explain Ohm's law with suitable example. [6]  
 b) Determine the current flowing through  $3\Omega$  resistor in the network shown below using Thevenin's theorem. [5]  
[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

- 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:

- 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

**Good Luck!**

# Diploma In Electrical Question Paper 2nd Sem

**G Psacharopoulos**



## **Diploma In Electrical Question Paper 2nd Sem:**

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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

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