

E- SCHEME
Sample Question Paper

Course Name : Computer Engineering Group

Course Code : CO/CM/IE/CD

Semester : Second

Subject Title : Electrical Technology

Max Marks : 100

12026

Time: 3 Hrs.

Instructions:

- 1) All questions are compulsory.
- 2) Illustrate your answers with neat sketches wherever necessary.
- 3) Figures to the right indicate full marks.
- 4) Assume suitable data if necessary.
- 5) Preferably, write the answers in sequential order.

Q.1 Attempt any ten of the following:

20 Marks

- a) State Ohm's law.
- b) State Kirchhoff's current law.
- c) What is ideal current source?
- d) What is an open circuit?
- e) Define time period of a.c. quantity.
- f) State the relation between phase and line voltage of three phase star connected system.
- g) What is meant by three phase-balanced system?
- h) Define transformer.
- i) What is step down transformer?
- j) Distinguish between transformation ratio and voltage ratio.
- k) Classify stepper motor.
- l) State the principle of D.C. motor.

Q.2 Attempt any four of the following:

16 Marks

- a) State the formulae for equivalent resistance of series and parallel circuits.
- b) State the formulae for conversion of star in to equivalent delta and delta in to equivalent star.

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employment, career progression or university progression in the engineering sector.

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Electrical and Electronic Engineering - New Era College

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