#### Scheme – I

#### Sample Question Paper

Program Name : Mechanical & Automobile Engineering

Program Code : ME / AE Semester : Third

Course Title : Basic Electrical & Electronics Engineering

Marks : 70 Time: 3 Hrs.

22310

#### 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.

#### SECTION A

#### Q.1) Attempt any SIX of the following.

12 Marks

- a) Define Magnetic circuit.
- b) Define: (i) Permeability (ii) Reluctance
- c) Define RMS value and average value with respect to sinusoidal ac waveform.
- d) Draw sinusoidal waveform and show the various quantities associated with it.
- e) State the working principle of 1-phase transformer.
- f) Write EMF equation of transformer. State the meaning of each notation in it.
- g) Define FHP motor.

#### Q.2) Attempt any THREE of the following.

12 Marks

- a) Compare Electric Circuit and Magnetic Circuit on the basis of: (i) Definition (ii) Relation between flux and current (iii) Analogy and (iv)Diagram.
- b) Draw a balanced 3-phase delta connected load. Show various line and phase quantities on it. Also write relationship between line and phase values of voltages and currents.
- c) Explain the construction and working principle of transformer.
- d) Explain working of autotransformer. State it's any two applications.

# **Sample Question Paper Basic Electronics**

**ML Morrison** 

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