

Scheme – I
Sample Question Paper

Program Name : Mechanical & Automobile Engineering
Program Code : ME / AE
Semester : Third
Course Title : Basic Electrical & Electronics Engineering
Marks : 70

22310

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.

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 its any two applications.

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