

**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.

# Sample Question Paper Basic Electronics

**Yicheng Fang**



## **Sample Question Paper Basic Electronics:**

## **Sample Question Paper Basic Electronics** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has are more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Sample Question Paper Basic Electronics**," compiled by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we will delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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