

**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

**Lauren Gardner**



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

## Unveiling the Magic of Words: A Report on "**Sample Question Paper Basic Electronics**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Sample Question Paper Basic Electronics**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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