

**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

**A Loxley**



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

This book delves into Sample Question Paper Basic Electronics. Sample Question Paper Basic Electronics is a crucial topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Sample Question Paper Basic Electronics, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
    - Chapter 1: Introduction to Sample Question Paper Basic Electronics
    - Chapter 2: Essential Elements of Sample Question Paper Basic Electronics
    - Chapter 3: Sample Question Paper Basic Electronics in Everyday Life
    - Chapter 4: Sample Question Paper Basic Electronics in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, the author will provide an overview of Sample Question Paper Basic Electronics. This chapter will explore what Sample Question Paper Basic Electronics is, why Sample Question Paper Basic Electronics is vital, and how to effectively learn about Sample Question Paper Basic Electronics.
  3. In chapter 2, the author will delve into the foundational concepts of Sample Question Paper Basic Electronics. The second chapter will elucidate the essential principles that need to be understood to grasp Sample Question Paper Basic Electronics in its entirety.
  4. In chapter 3, this book will examine the practical applications of Sample Question Paper Basic Electronics in daily life. The third chapter will showcase real-world examples of how Sample Question Paper Basic Electronics can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Sample Question Paper Basic Electronics in specific contexts. The fourth chapter will explore how Sample Question Paper Basic Electronics is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, the author will draw a conclusion about Sample Question Paper Basic Electronics. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Sample Question Paper Basic Electronics.

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