

2202E014

**BACHELOR OF VOCATION**  
**Subject: Basics of Electrical & Electronics Engineering**  
**Subject Code: EE-501**  
**Semester: First**  
**February 2022**  
**Theory (External): 35 Marks**  
**Time: 03 Hours**

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**Instructions to the Students**

1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 marks.
4. Read the questions carefully and write the answers in the answer sheets provided.
5. Do not write anything on the question paper.
6. Wherever necessary, the diagram drawn should be neat and properly labelled

Roll Number									

**SECTION -A (SHORT/OBJECTIVE TYPE QUESTIONS)**  
(10x1=10 Marks)

- A. Define voltage
- B. Define current
- C. Define power
- D. Discuss the application of circuit breaker
- E. Discuss the applications of semi conductor
- F. Define the function of diode
- G. Define the application of star connection
- H. Define the applications of delta connection
- I. Define the function of motor
- J. Define the application of earthing

**SECTION -B (ESSAY TYPE QUESTIONS)**  
(5x5=25 Marks)

1. Draw and explain Ohm law with suitable applications
2. Differentiate between series and parallel circuit with neat diagram
3. Explain construction and working of DC motor with neat diagram and also mention its merits and demerits
4. Explain construction and working of transformer with neat diagram and also mention its merits and demerits

5. Differentiate between single phase and three phase supply with neat diagram
6. Define the function of relay. Explain the construction and working of relay with neat diagram
7. Define the function of thyristor. Discuss the characteristics and applications of thyristor
8. Explain the concept of personnel protective equipment with suitable example

END OF PAPER

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