

501

2112E104

**BACHELOR OF VOCATION**  
**Subject: Basic Electrical and Electronics Engineering**  
**Subject Code: EE-501**  
**Semester: First**  
**December 2021**  
**Theory (External): 35 Marks**  
**Time: 03 hours**

---

**Instructions to the Students**

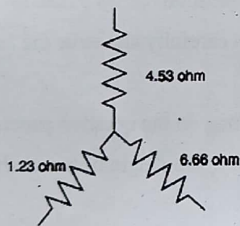
1. This Question paper consists of two Sections. All sections are compulsory.
2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question 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 (OBJECTIVE TYPE QUESTIONS)  
(10x1=10 Marks)

- A How much current is in a circuit if it takes 5 seconds for 7 coulombs to flow past a given point?
- B What effect does three batteries connected in series configuration have on current and voltage?
- C Define instantaneous value and frequency with respect to sinusoidally varying quantities.
- D What is the frequency of a sine wave with a period of 0.02 second?
- E Can DC be applied to transformers? Explain with reason
- F Find the equivalent delta circuit of given circuit



- G Industries are required to
- Provide certain types of PPE at no cost to the employee
  - Train employees on the use of PPE
  - Monitor and enforce the use of required PPE
  - All of the above