

1st Sem./COMMON TO ALL BRANCHES/ 2021(W)
Th4(A&B) Basic Electrical & Electronics

Time- 3 Hrs

Full Marks: 80

Answer any five Questions including Q No.1& 2
Figures in the right hand margin indicates marks

2 x 10

1. Answer **All** questions

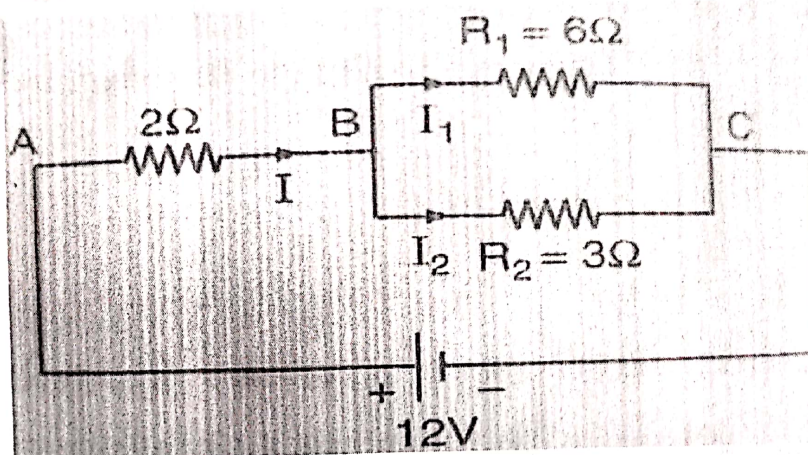
- What is the function of economiser in thermal power plant?
- Write down basic protective device used in house hold wiring.
- What is the function of commutator in a D.C generator?
- Sketch connection diagram of :-
 - Watt meter
 - Energy meter
- What is the total resistance of the resistances 2Ω , 4Ω , 6Ω , 8Ω and 10Ω connected in parallel?
- Write down the difference between conductor and semiconductor.
- What is the need of biasing?
- Write down the difference between oscillator and amplifier?
- What is modulation and state different types of modulation?
- What is passive transducer? Write down 2 example of it.

2. Answer **Any Six** Questions

6 x 5

- Explain different types of wiring used in Electrical installation.

b.



Find the value of I_1 and I_2 .

- Derive the expression for instantaneous current when A.C voltage