

ANURAG GROUP OF INSTITUTIONS

Autonomous

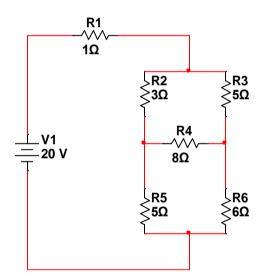
School of Engineering

II-B.Tech -I- Semester (2018-19)

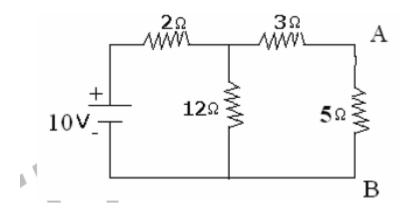
ASSIGNMENT-1

Subject: Electrical and Electronics Engineering (Only MECH)

1. In the circuit shown in the fig, find the effective resistance and total current using stardelta transformations.



- 2. Find a) Current flowing through the 3Ω resistor
 - b) Voltage across 5Ω resistor
 - c) Power delivered by the source for the circuit shown below.



- 3. a) Define ohm's law and write the limitations of ohm's lawb) Explain Kirchhoff's laws.
- 4. Derive the star to delta and delta to star transformations?
- 5. Explain the principle and operation of DC Generator.
- 6. Derive the EMF equation of DC Generator