

SIR C.R.REDDY COLLEGE OF ENGINEERING, ELURU  
**DEPARTMENT OF CIVIL ENGINEERING**  
II Year First Semester, Academic Year 2018-19

**I -Assignment**

Subject: R16-21012 Basic Electrical & Electronics Engg, Mr B. Sambasiva Rao

**Batch: I**

1. a) Explain Inductive networks and Capacitive networks in series and parallel with examples?  
b) Explain different types of network elements in detail?
2. a) Explain in detail about three point starter with diagram ?  
b) Explain in detail about Swin Burn's test.
3. a) Explain the principle operation of the transformer?  
b) Derive the EMF equation in transformer and definition of voltage regulation.

**Batch: II**

1. a) Explain ohm's law and Kirchhoff's law with examples (KCL and KVL)?  
b) Explain about star to delta & delta to star transformation?
2. a) Derive EMF equation in a DC generator?  
b) Derive the torque equation in DC motor?
3. a) Explain the principle operation of the transformer?  
b) Derive the EMF equation in transformer and definition of voltage regulation.

\*\*\*