

**Modi Institute of Technology, Kota**  
**I<sup>st</sup> Midterm**  
**IV Year VIII Sem**  
**Branch: Electrical Engineering**  
**Sub: Electrical Drives and Their Control**

**Time:1 Hr**

**MM:[10]**

**Attempt any two questions. Each question carries five marks.**

**Q1. Suggest the suitable conventions about the signs of torque and speed for multi quadrant operations of drives..**

**Q2. Write short note on steady state stability of drives.**

**Q3. Explain electric braking for DC separately excited motor, with suitable connection diagrams and speed torque curves.**

**\*\*\*Best of Luck\*\*\***

**Modi Institute of Technology, Kota**  
**I<sup>st</sup> Midterm**  
**IV Year VIII Sem**  
**Branch: Electrical Engineering**  
**Sub: Protection of Power System**

**Time:1 Hr**

**MM:[10]**

**Attempt any two questions. Each question carries five marks.**

**Q1. Explain zones of protection including primary and backup protection?**

**Q2. Explain time and current grading over-current protection scheme?**

**Q3. For the protection of generator, explain protection against stator inter-turn faults?**

**\*\*\*Best of Luck\*\*\***

**Modi Institute of Technology, Kota**  
**I<sup>st</sup> Midterm**  
**IV Year VIII Sem**  
**Branch: Electrical Engineering**  
**Sub: EHV AC/DC TRANSMISSION**

**Time:1 Hr**

**MM:[10]**

**Attempt any two questions. Each question carries five marks.**

**Q1. Give the reasons in details for using bundled conductors in EHV AC transmission. Briefly explain the properties of the bundled conductors.**

**Q2. Explain Automatic Generation Control.**

**Q3. Explain in Detail Method of Load Frequency Control .**

**\*\*\*Best of Luck\*\*\***

**Modi Institute of Technology, Kota**

**I st Midterm**  
**IV Year VIII Sem**  
**Branch: Electrical Engg.**  
**Sub: UEP**

**Time: 1 Hr**

**MM:[10]**

**Attempt any two questions. Each question carries five marks.**

**Q1. What is the advantage of electric heating? Give classification of various electric heating methods along with brief account of their working principles**

**Q2. Explain resistance welding and it application**

**Q3. State and explain law of illumination.**

**\*\*\*Best of Luck\*\*\***