

G.S Mandal's
MARATHWADA INSTITUTE OF TECHNOLOGY, AURANGABAD
Department of Electronics and Telecommunication Engineering
Question Bank:

Unit1:

1. Describe working principle and construction of DC motor?
2. Explain Types of DC Generator?
3. A 220V shunt motor has $R_a=0.5\Omega$, $I_a=40A$, $R_{sh}=220\Omega$ find back emf, load current and shunt current?
4. Derive the equation for DC motor torque?

Unit 02:

1. Classify 3 Phase A.C motors on the basis of working principle and construction?
2. Derive equation for starting and running Torque in asynchronous motor for analyzing its characteristics?
3. Explain the power stages of Motor and demonstrate different efficiencies?
4. Describe working principle and construction of Synchronous motor?
5. What is hunting ,Explain its causes and effects ?
6. Classify and Explain different speed control methods in Induction motor ?
7. Explain the Induction motor characteristics with relations and graph ?

Unit1:03

1. Explain working principle of variable reluctance motor?
2. Describe in detail servo motor with its types?
3. Describe in detail Stepper motor with applications?
4. Explain variable reluctance motor in detail?
5. Explain working principle of FHP motor?
6. How many types of servo motors explain each in detail?
7. Explain working principle of Hysteresis motor?

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Unit 04

1. Classify transducers?
2. In brief write selection methods of transducer ?
3. How Strain gauge work, explain its types ?
4. What is LVDT, Explain in detail?
5. Write a short note on different Temperature transducer,
6. What is a Need of signal conditioning and explain its types?
7. Write a short note on piezoelectric concept?
8. Explain Interfacing techniques of transducers with microprocessor/controller?

Unit 05:

1. Write in brief Measurement of vibration with all types ?
2. How Smoke and fire detection circuit work ?
3. Explain Level measurement with its types ?
4. What is Electrical telemetry ?
5. Define and describe Thickness & Humidity measurement ?
6. What is Thermal conductivity?
7. How Gas analyzer work ?

Unit 06:

1. Compare LED and LCD.
2. Explain X-Y recorder and its applications ?
3. What is Optical oscillograph?
4. What is Cold cathode display?
5. How Optical oscillograph work ?