

Electrical Discipline

Syllabus for Written Test of candidates for engagement as Contract Engineers (Degree Level)

Energy and Power	Three-Phase Systems in Power Applications
Parallel Circuits	Ohm's Law
Series Circuits	Inductors
Series-Parallel Circuits	Circuit Theorems and Conversions
Circuit Theorems in AC Analysis	Magnetism and Electromagnetism
Voltage, Current and Resistance	Capacitors
Alternating Current and Voltage	Transformers
RC Circuits	RL Circuits
RLC Circuits and Resonance	Branch, Loop and Node Analyses
Quantities and Units	Time Response of Reactive Circuits