

A	02 - Circuits	DC - elements, Power, KVL, KCL, circuit arrangements, → Short Circuits, Open Circuits, Thevenin/Norton/analysis methods	A
B	02 - Circuits	AC - basics, frequency, RMS, polar/rec, RLC components → Analysis Methods (thevenin, etc), Equivalent Impedance	B
C	02 - Circuits	AC - 1-PH vs. 3-PH, DELTA/WYE configurations → Y-connected load, parallel-connected-loads, Y-source/Delta-load, etc	C
D	02 - Circuits	AC - Power Factor, (PF of a system), leading vs. lagging → Waveforms, phasors, power triangle (S/Q/P)	D
E	02 - Circuits	Per Unit -	E
F	03 - Devices	Batteries, Battery Ratings, Power Supplies, Variable Speed Drives Rectifiers, Inverters, Controls (relays/switches, PLC's)	F
G	04 - Rotating Machines	Theory - Synchronous Motors and Generators Theory - Induction Machines	G
H	04 - Rotating Machines	Cheat Sheets & Sample Probs - Synchronous & Induction Machines → Includes Voltage Regulation for 'complicated' situations (generators)	H
I	05 - Electromagnetic Devices	Ideal, Non-ideal, basics, testing (open-circuit, short-circuit), losses	I
J	05 - Electromagnetic Devices	3-phase configurations (Y and Delta)	J
K	05 - Electromagnetic Devices	AutoTransformers and Reactors	K
L	06 - Transmission & Distribution	Transmission Line Analysis - Inductance/Capacitance, Impedance Short/Med/Long models, V-drop & V-regulation	L
M	06 - Transmission & Distribution	Power Factor Correction → Capacitance Required, rating of capacitors vs. system	M
N	06 - Transmission & Distribution	Power Quality (including Harmonics)	N
O	07 - Power System Performance	Power Flow Study, Power System Stability → Load Sharing (Generators & Transformers)	O
P	06 - Transmission & Distribution + 02-Circuits	Symmetrical Components Distribution Analysis - Fault Current Analysis (L-G, L-L, DL-G, 3-PH, etc)	P
Q	08 - Protection	Protective Devices (Fuses, CBs, Reclosers) Overcurrent protection - (includes faults on XFMR, Gen, Trans. Lines) → "a fault occurs at T1, what is the I _{sc} " (sum the system up to that point)	Q
R	08 - Protection	Protective relaying (distance, differential, etc)	R
S	08 - Protection + 10 - Special Applications	Protection Coordination (primary vs. secondary) + Protection Schemes + Reliability (includes substation bus configurations)	S
T	09 - Measurement & Instrumentation	Instrument Transformers (CT's, VT's, PT's)	T
U	09 - Measurement & Instrumentation	Wattmeters, VOM metering, Insulation Testing	U
V	09 - Ground Resistance Testing + 06 - Power System Grounding	Ground Resistance Testing - Power System Grounding -"ungrounded system", (system grounding vs. equipment grounding)	V
W	10 - Special Applications	Lightning & Surge Protection	W
X	10 - Special Applications	Economics	X
Y	10 - Special Applications	Illumination Demand/Energy Management, other 'random' items	Y
Z	11 - Codes and Standards	NEC Code section summaries and example problems Note - has some info on 'grounding' (mostly equipment grounding) Note - has some V-drop questions (different than S06)	Z