(10M)

only numericals

1) Module 1 :- Numerical sums of 10 M
Thevenin, Nodal, Mesh, Norton's , Max power

10M 2) Module 2 :- Numerical on RL, RC , RLC series
only numericals from notes ; No theory or derivation
from back of notes

only numericals

3) Module 3 :- 10 M
SMPS, UPS, inverter ————— only this topics
Switch mode power supply

→ Full ratla.

4) Module 4 :-
No number conversions ⊗

Theory :-

SMor Shortnotes
10M 1) Number system   2) Grey code   3) BCD code
4) Binary Arithmetic using 1 bit

→ full ratla

5) Module 5 :-

same as this

K-Map compulsory — 10M   *ratta + understanding*

• Steps in designing combinational circuit
↳ what is combinational circuit → Ratta
↳ Write and reduce one eqⁿ → understanding

⇒ This has been done from AJ

• Rules of binary arithmetic
• Boolean Laws [10 Laws] → Ratta
• Shortnote on K-map → for this write defn of kmap
Theory • K-Map grouping rules 2,3,4 variable grid diagram → Ratta.
Theory • Minimization of boolean expression
• De-Morgans Law (2 demorgan's law along with table)

• Realization of basic gates using NAND and NOR
• Shortnote on SOP and POS → Ratta

6) Module 6 :- [10 M]

Half adder, full adder, Half subtractor, full ——
encoder, decoder, multiplexer, de-multiplexer

⊕

⇓

Highlight the role of select lines in answer