



RAN-2503000505049003 / 2503000505059003

T. Y. B. Sc. (NEP) (Sem. - V) Examination October - 2025

EL-MN2-502 : Advanced Electronics System Theory

Time: 1 Hour]

[Total Marks: 25

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.

Seat No.:

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Student's Signature

Q. 1. Answer in short: (Any Five)

(05)

- What is a flip-flop?
- What is the limitation of RS flip-flop?
- Give full form of EPROM.
- Define shift register.
- What is SISO in a register?
- Define synchronous counter.

Q. 2. Answer (Any Two)

(10)

- Explain D flip-flop in detail.
- Explain JK flip-flop in detail.
- Classify semiconductor memory.

Q. 3. Answer (Any Two)

(10)

- Explain shift register and their type.
- Explain up counter in detail.
- Explain decade counter in detail.