



RAN - 2503000504049001

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S. Y. B. Sc. (NEP) (Sem. : IV) Examination April - 2025

Minor - Instrumentation System

[Total Marks: 25

સૂચના : / Instructions

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નીચે દર્શાવેલ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of signs on your answer book

Name of the Examination:

S. Y. B. Sc. (NEP) (Sem. : IV)

Name of the Subject :

Minor - Instrumentation System

Subject Code No.: **2503000504049001**

Seat No.:

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Student's Signature

(2) Figure on the right indicates full marks.

Q.1 Answer in brief (Any five) 5

1. What is the purpose of a trigger circuit in CRO?
2. What is the significance of linearity in measurement system?
3. What is the limitation of Maxwell's bridge?
4. What is a spectrum analyzer used for?
5. What factors affect the accuracy of a digital frequency meter?
6. Name any two environmental errors

Q.2 Answer any two 10

1. Explain Wein's frequency bridges. Derive the equation for unknown frequency
2. Explain digital storage oscilloscope
3. What is digital frequency meter? Explain it with neat block diagram

Q.3 Write short notes on any two 10

1. Function generator
2. Successive approximation DVM
3. Block diagram of CRO