



RAN-2403000501069003

F.Y.B.Sc. (NEP) (Sem. - I) Examination November - 2025

ELE-SEC-101 : Basic of Repair and Maintenance of Equipment

[Total Marks: 13

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

Answer any 13

1. A voltmeter is connected in _____ to the device to measuring its voltage and a current meter is current meter is connected in _____ to the device for measuring its current.
2. State various types of voltmeters.
3. How can you increase the range of a Voltmeter?
4. Digital multimeter is used for _____
 - a) measuring a.c. and d.c. current, voltage and resistance
 - b) measuring a.c. current and voltage
 - c) measuring d.c. current and resistance
 - d) measuring a.c. voltage and resistance
5. For resistance measurement, meter contains _____
 - a) high current source
 - b) medium current source
 - c) low current source
 - d) low voltage source
6. Basic building blocks of digital multimeter are _____
 - a) oscillator, amplifier
 - b) diode, op amp
 - c) rectifier, schmitt trigger
 - d) A/D, attenuator, counter
7. Current is converted to voltage _____
 - a) through a voltmeter
 - b) through a resistance
 - c) through an ammeter
 - d) through a galvanometer
8. State the applications of multimeter.
9. How continuity is checked by multimeter?
10. With an LCR Meter which parameter can be measured?
11. State the types of soldering used in electronics.
12. What do you understand by dry soldering?
13. What is drawback of dry soldering?
14. Draw the AC signals.
15. What is the use of De-soldering pump?