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Sl. No.

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B.Sc. I Semester Degree Examination, March/April - 2023

ELECTRONICS (OPEN ELECTIVE)

Fundamentals of Electronics

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : Answer **all** sections.

SECTION - A

1. Answer the following sub-questions.

10x1=10

- (a) What is energy level ?
- (b) What is atomic number of Si ?
- (c) What is resistance ?
- (d) What is Passive elements ?
- (e) What is Amplitude ?
- (f) Expand DMM.
- (g) What are color bands for 2.2 kilo ohm ?
- (h) What is equation for Ohm's law ?
- (i) What is Pn junction ?
- (j) What is the use of lead in soldering ?



P.T.O.

SECTION - B

Answer **any four** questions.

4x5=20

2. Write a note on Intrinsic Semiconductors.
3. What is N-type Semiconductor ? Explain in brief.
4. What are fixed Resistors mention few resistors ?
5. Explain working of Transformer.
6. Explain terms of AC :
 - (i) Waveform
 - (ii) Period
 - (iii) Frequency
 - (iv) Phase
 - (v) RMS value
7. Define and explain current divider theorem with circuit.

SECTION - C

Answer **any three** questions.

3x10=30

8. Classify the materials on the basis of energy band theory.
9. Explain carbon composition resistor with color band techniques.
10. Write a note on CRO with cross sectional view diagram.
11. Explain with color chart of resistor taking some examples of resistors.
12. Explain basic precautionary measures of soldering techniques in detail.

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