TED(15) 5034.

model question.

ELECTRICAL ENGINEERING MATERIALS.

Time: 3 hours

(maximum marks: 100).

I. Answer all questions in one or two sentences. Each question carries 2 marks.

1. What are the advantages of ACSR.
2. Write any two materials used for heavy duty contacts.
3. What do you mean by Curie point.
4. Write any two advantages of SF_6.
5. Name any two insulating material.

PART-B

(maximum: 30).

II Answer any five of the following questions.

1. Write the properties of mercury?
2. Explain the working of strain guage?
3. What are the essential properties of Transformer oil.
4. Describe the properties and Drawbacks of mica.
5. Explain B-H curve.
6. What are the advantages of Silicon steel.
7. List the properties of hard magnetic material.

Part-C

UNIT-I

III a) What are the essential properties of fuse materials. [8]

b) Give the constructional details of wire-wound resistor. [7]

OR.

IV a) Describe the electrical properties of conducting materials.

b) properties and uses of Tungsten.

unit II

V a) Explain the formation of n-type semiconductors [7]

b) State the properties of Germanium diode [8]

OR

VI a) Explain p-n junction with forward biasing [8]

b) Describe intrinsic semiconductor [7]

unit-III

VII a) Write notes on CRGO [7]

b) Different type of Transformers used in electronic circuit

OR.

VIII a) classification of semiconducting materials [8]

b) Different types of inductors [7].

unit IV

IX a). Briefly Describe different types of gases used as insulators. [8]

b) Describe the properties and applications of glass [7]

OR.

X a) Describe the features and applications of ceramics [8].

b) chemical properties of insulating materials [7]