



TED (10) 1004
(Revision -2010)

N20 - R0256

Reg. No.....
Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE, NOVEMBER - 2020**

GENERAL ENGINEERING

[Maximum Marks: 100]

[Time: 3 Hours]

PART-A

[Maximum Marks: 10]

(Answer **all** questions in one or two sentences. Each question carries 2 marks)

- I. 1. What is a total station.
2. What do you mean two stroke engine
3. State Ohm's law.
4. What is microcontroller
5. What do you mean by CDMA. (5 x 2 = 10)

PART-B

[Maximum Marks: 30]

(Answer any **five** of the following questions. Each question carries 6 marks)

- II 1. What are the different types of cement.
2. List out the functions of foundation.
3. Differentiate petrol engine diesel engine.
4. Draw the block diagram of a hydro electric power plant
5. Explain surface mount technology
6. Explain the working of LED.
7. List the advantages of SMPS (5 x 6 = 30)

PART-C

[Maximum Marks: 60]

(Answer **one** full question from each Unit. Each full question carries 15 marks)

UNIT - I

- III (a) Explain different types of bricks (8)
(b) List out the uses of steel in building works (7)



OR

- IV (a) Explain any four instruments used in chain survey. (8)
(b) What are the operations involved in chain surveying. (7)

UNIT - II

- V Explain power transmission of a four wheel vehicle with a neat sketch (15)

OR

- VI (a) With a neat sketch explain the working of a thermal power plant. (9)
(b) Explain the advantages and disadvantages of nuclear power plant (6)

UNIT- III

- VII (a) Explain the system of distribution of electrical energy from the supply main to the consumers with circuit diagram (9)
(b) Write a short note on:
(i) MCB (ii) ELCB (6)

OR

- VIII (a) A resistance of 5Ω , an Inductance of 0.07 H and a capacitance of 97 microfarad are connected in series across 100V, 50 Hz supply. Calculate the current passing through the circuit. (9)
(b) Explain the major DC voltage sources. (6)

UNIT - IV

- IX (a) Explain proximity switch. (8)
(b) Suggest the methods to manage E-waste effectively (7)

OR

- X (a) Briefly explain i) Integrated circuit ii) TDMA (8)
(b) List the advantages of SMD circuits. (7)
-