TED (10) 1004
(Revision -2010)

N20 - R0256

Reg. No……
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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)
