TED (10)-1004	Reg. No
(REVISION—2010)	Signature

FIRST SEMESTER DIPLOMA EXAMINATION IN ENGINEERING/ TECHNOLOGY—MARCH, 2011

GENERAL ENGINEERING

(Common-Except DCP and CABM)

[Time: 3 hours

(Maximum marks: 100)

PART-A

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

Marks

- I (a) Name the cement used for construction under water.
 - (b) What is the use of gear box in a four wheel vehicle?
 - (c) Define impedance of an A.C. circuit.
 - (d) Write an equation for finding the equivalent resistance of a parallel circuit containing 'n' numbers of resistances.
 - (e) State the purpose of proximity switch in an electronic circuit.

(5x2=10)

PART-B

(Answer any five questions. Each question carries 6 marks)

- II (a) Write the essential requirements of a good foundation.
 - (b) Classify power plants on the basis of fuel used and nature of load.
 - (c) Compute the power dissipated and current drawn from the source by a circuit containing 3 resistors connected as follows:
 - (i) 30 Ω and 70 Ω resistances are connected in parallel.
 - (ii) This parallel combination is connected in series with a resistance of 29 Ω . The circuit is fed by a DC supply of 200 V.
 - (d) Draw the block diagram of a switch mode power supply.
 - (e) List the uses of steel in building works.
 - (f) State the uses of: (i) Clutch (ii) Rear axle in a four wheel vehicle.
 - (g) Write short notes on :
 - (i) Earth Leakage Circuit Breaker (ELCB)
 - (ii) Earthing.

(5x6=30)

[270]

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