TED (15) – 4055
(REVISION — 2015)

Reg. No. .....
Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2018

AUTOMOBILE ENGINEERING DRAWING

[*Time* : 3 hours

(Maximum marks : 100)

[*Note* :— 1. Drawing sheet 58 × 45 cms to be supplied.
2. Assume suitable data wherever requires.]

Marks

Unit — I

I Draw the layout of fully equipped modern automobile garage with fuel filling station. Show atleast 20 important equipments.

(a) Line sketch. 5

(b) Placing 20 equipments with name. 20

Or

II Draw the isometric view of single room paint booth. Identify 10 important components.

(a) Isometric view 15

(b) Identifying 10 components. 10

Unit — II

III Draw proportionate full sectional front view, top view and half sectional side view of a two stroke petrol engine piston.

(a) Front view 10

(b) Side view 10

(c) Top view 5

Or

IV Draw a proportionate front view of a four cylinder petrol engine crank shaft. Also show sectional views at main journal and crank pin journal.

(a) Correctness of front view. 15

(b) Section at main journals and crank pin journals. (5 + 5 = 10)

Marks

UNIT — III

V Draw the wiring diagram of a petrol car indicating ignition circuit, head lamp circuit, starting circuit, horn circuit and charging circuit. (5 × 5 = 25)

OR

VI Draw the wiring diagram of a petrol 2 wheeler showing ignition circuit, head lamp circuit, indicator circuit, charging circuit and brake light circuit. (5 × 5 = 25)

UNIT — IV

VII Draw full sectional proportionate view of side valve operating mechanism indicating 10 important parts.

(a) Full sectional view 15

(b) Identifying 10 parts. 10

OR

VIII Draw full sectional view of the following.

(a) Spark plug 10

(b) Diesel fuel injector. 15