TED (15) – 2051

(REVISION — 2015)

Reg. No. .....

Signature .....

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2017

AUTOMOBILE POWER PLANT

[*Time* : 3 hours

(Maximum marks : 100)

PART — A

(Maximum marks : 10)

Marks

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

1. Define Compression ratio.
2. Identify T head engine.
3. State the need of separators in fuel tank.
4. List any two types of nozzle valves.
5. Tell about Multi grade oil. (5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. State three requirements of compression rings and oil control rings.
2. State four functions of flywheel.
3. List components of conventional diesel fuel system and write one or two sentence on each
4. Write three function of carburettor.
5. Discuss fuel feed pump used in diesel fuel system.
6. Distinguish full flow and by pass flow oil filter.
7. Write notes on Bellows type thermostat valve. (5 × 6 = 30)

Madin Polytechnic College

Marks

PART — C

(Maximum marks : 60)

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

UNIT — I

III Demonstrate the working of a four stroke diesel engine with neat sketches. 15

OR

IV Write eight comparison between two stroke and four stroke engines. 15

UNIT — II

V Describe working of SU carburetor, describe two circuits with neat sketch. 15

OR

VI Describe the working of electrical fuel pump with neat sketch. 15

UNIT — III

VII Discuss the working of in line jerk pump element with the help of a neat sketch. 15

OR

VIII Discuss the working of pneumatic governor used in FIP with the help of a neat sketch. 15

UNIT — IV

IX Discuss with the aid of sketch working of pump circulation system of cooling 15

OR

X List any five properties of lubricating oil. Write notes on each property with not more than five sentences. 15

Madin Polytechnic College