

TED (15) – 6052

Reg. No.....

(REVISION — 2015)

Signature

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 2019**

AUTOMOBILE SERVICING AND MAINTENANCE

[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. List the methods by which valve guide clearance can be measured.
2. Define the term vapor lock.
3. Identify the need for clutch pedal travel adjustment.
4. List any two defects of propeller shaft.
5. State the purpose of brake bleeding.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. Write a short note about engine decarbonizing by scraping method.
2. Outline the different steps in reconditioning of crankshaft.
3. Write the three different methods of adjusting CB point gap.
4. Write down the procedure for idle mixture adjustment setting of a carburetor.
5. List any three clutch defects and their possible causes.
6. Summarize the procedure for centralizing of steering wheel.
7. Conclude the dismantling and servicing procedure for wheel cylinder.

(5×6 = 30)

PART — C

(Maximum marks : 60)

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

UNIT — I

- III (a) Write a short note about the features of cylinder reboring. 8
 (b) Outline the process for measuring main bearing clearance. 7

OR

- IV (a) Describe the procedure for cylinder leakage test. 8
 (b) Discuss the procedure for the servicing of flywheels. 7

UNIT — II

- V (a) Point out any five reasons for spark plug failure. 8
 (b) Outline the procedure for conducting phasing on an inline FIP. 7

OR

- VI (a) Summarize the procedure for troubleshooting the problem of 'no spark'. 8
 (b) Describe the different tests to be done on diesel injectors. 7

UNIT — III

- VII (a) Explain the procedure for dismantling and assembling of propeller shaft. 8
 (b) Outline any four reasons for rapid tyre wear. 7

OR

- VIII (a) Outline any five gearbox troubles and their possible causes. 8
 (b) Summarize the cold process for tyre re-treading. 7

UNIT — IV

- IX (a) Outline the procedure for adjusting steering play in rack and pinion steering gear box. 8
 (b) Describe the points for the maintenance of vibration dampers. 7

OR

- X (a) Summarize the procedure for testing of brake efficiency. 8
 (b) Write note on preventive maintenance of Vehicle. 7