

TED (15) – 6052

(REVISION — 2015)

Reg. No. ....

Signature .....

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

**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 any two reasons for low oil pressure.
2. State the function of a dwell meter.
3. Write any two reasons for clutch drag.
4. Write any two reasons for body boom due to propeller shaft.
5. Identify the reason for pitching movement in suspension system. (5×2 = 10)

**PART — B**

(Maximum marks : 30)

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

1. Outline the steps in valve servicing.
2. Summarize the decarbonizing procedure by scrapping method.
3. Indicate the points in testing of spark plug by visual inspection.
4. Explain the priming test of a mechanical fuel pump.
5. Describe briefly the process of hot patching an inner tube.
6. Write down the various steps in wheel alignment.
7. Outline the bleeding procedure for hydraulic brakes. (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 briefly the procedure for cylinder leakage test. 8  
 (b) Point out the various aspects in the maintenance of flywheel. 7

Or

- IV (a) Identify the various signs showing the necessity of engine overhauling. 8  
 (b) Illustrate the method to conduct cylinder reboring on an engine. 7

## UNIT — II

- V (a) Explain the method of idle speed and mixture adjustment of a carburetor. 8  
 (b) Outline the procedure for leak off test of a diesel injector. 7

Or

- VI (a) List any five requirements of a good spark plug. 8  
 (b) Write a short note on phasing of an inline fuel injection pump. 7

## UNIT — III

- VII (a) Describe the various types of adjustments of a clutch. 8  
 (b) Summarize the cold process of tyre re-treading. 7

Or

- VIII (a) Outline the dismantling procedure for propeller shaft. 8  
 (b) Identify any four reasons for uneven tyre wear. 7

## UNIT — IV

- IX (a) Write briefly about the method of adjustment of steering wheel play in a rack and pinion type steering gear box. 8  
 (b) Outline the procedure for washing a car in a service station. 7

Or

- X (a) Discuss the servicing of a wheel cylinder in hydraulic brake system. 8  
 (b) Write the procedure by which the condition of a shock absorber can be checked while on the vehicle. 7