

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/  
MANAGEMENT/COMMERCIAL PRACTICE — OCTOBER, 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. Define decoking.
2. State the cause and remedy for popping back in a carburetor.
3. State the term clutch slip.
4. Define breakdown maintenance.
5. Define the term priming in an AC mechanical fuel pump.

(5×2 = 10)

PART — B

(Maximum marks : 30)

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

1. List the possible causes of valve and tappet noise.
2. Distinguish between servicing and maintenance.
3. List any six causes and remedies for flooding of carburetor condition.
4. State the term clutch dragging. Give reasons for clutch dragging.
5. Write note on tyre rotation in a vehicle.
6. Write the causes for poor returnability of steering.
7. Write the procedure or steps involved in washing a car in a service station.

(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) Describe the various types of defects in the piston.                | 8 |
|     | (b) List the various signs showing the necessity of overhauling engine. | 7 |

OR

- |    |   |   |
|----|---|---|
| IV | (a) Write reasons for black and blue smokes from engine.        | 8 |
|    | (b) List the steps involved in fitting a wet liner in cylinder. | 7 |

UNIT — II

- |   |   |   |
|---|---|---|
| V | (a) Give reasons for spark plug failures in SI engines.                                 | 8 |
|   | (b) List the maintenance aspects to be taken care of in a diesel fuel injection system. | 7 |

OR

- |    |  |   |
|----|--|---|
| VI | (a) List the activities related to maintenance of distributor. | 8 |
|    | (b) Describe any three tests carried out in diesel injector.   | 7 |

UNIT — III

- |     |  |   |
|-----|--|---|
| VII | (a) Describe the four types of adjustments carried out in clutch.            | 8 |
|     | (b) Describe the two methods of repairing inner tube of tyre after puncture. | 7 |

OR

- |      |  |   |
|------|--|---|
| VIII | (a) Write reasons for abnormal wear of tyres.        | 8 |
|      | (b) Describe the trouble shooting chart for gearbox. | 7 |

UNIT — IV

- |    |  |   |
|----|--|---|
| IX | (a) Write the general inspection procedure for front suspension. | 8 |
|    | (b) Describe the brake servicing steps.                          | 7 |

OR

- |   |   |   |
|---|---|---|
| X | (a) Write the procedure for servicing master cylinder.  | 8 |
|   | (b) List the preventive maintenance activities to be done on a vehicle which is to be laid off for a long period. | 7 |

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