

DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/MANAGEMENT/
COMMERCIAL PRACTICE – APRIL -2020.

AUTOMOBILE SERVICING AND MAINTENANCE

(Maximum Marks : 75)

[Time : 2.15 hours]

PART–A

Marks

I. Answer **any three** questions in one or two sentences. Each question carries 2 marks.

1. Define vehicle maintenance?
2. Define the term priming in an AC mechanical fuel pump.
3. State the term clutch dragging.
4. List two reasons for brake drag condition in a hydraulic brake system.
5. State the cause and remedy for popping back in a carburetor. (3x2=6)

PART - B

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

1. List the major engine reconditioning equipments.
2. Write procedure for fitting dry liner in cylinder bore.
3. List the types of tests that can be carried out for a distributor in ignition system.
4. List the mechanical defects due to which excessive tyre wear occurs.
5. Write procedure for clutch relining.
6. Define brake bleeding. Write the steps involved in bleeding a braking system.
7. List the different types of services provided in a service station. [4x6 =24]

PART - C

(Answer **any of the three units** from the following. Each full question carries 15 marks)

UNIT I

- III** (a) Write the steps in conducting vacuum test on engine. (8)
- (b) Define crankshaft thumping. List the causes of crankshaft thumping. (7)

OR

- IV** (a) Write the procedure for conducting cylinder leakage test. (8)
(b) List any seven reasons for engine overheating. (7)

UNIT- II

- V** (a) Give reasons for poor idling in petrol engine fuel system. (8)
(b) Describe the procedure for diesel engine fuel injection pump element output calibration. (7)

OR

- VI** (a) Write the possible reasons and remedies for erratic running diesel engine. (8)
(b) Describe the tests carried out to ascertain the performance of AC mechanical fuel pump. (7)

UNIT- III

- VII** (a) Explain the basic procedure of tyre retreading (conventional/mould cure). (8)
(b) What are the reasons for a noisy differential? (7)

OR

- VIII** (a) Explain the steps involved in servicing of propeller shaft assembly. (8)
(b) Discuss pre cure retreading. List the advantages. (7)

UNIT – IV

- IX** (a) List the defects which may occur in leaf spring assembly. (8)
(b) List the preventive maintenance aspects to be carried out in automobile engines. (7)

OR

- X** (a) Write the procedure for centralizing steering wheel. (8)
(b) List the causes of vehicle wander condition. (7)
