

N21-01298

TED (15/19) - 4022
(Revision-2015/19)

Reg.No.....
Signature.....

**DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/
COMMERCIAL PRACTICE - NOVEMBER-2021**

AUTOMOBILE ENGINEERING

[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. State the function of a governor in automobile Engines?
2. State the functions of clutch.
3. List different types of automobile wheels.
4. Name the emission standards used in India.
5. Write the significant benefit of a Center locking system (3 x 2 = 6)

PART – B

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

1. Explain the working of a simple Carburetor.
2. Explain the working of a Magneto ignition system
3. List the functions of gearbox.
4. Briefly describe about full floating rear axle.
5. List advantages of suspension system.
6. Explain bleeding of brakes.
7. Give a short note on Air bag. (4 x 6= 24)

PART – C

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

UNIT – I

III. (a) Explain the fuel supply system of petrol engine. (8)

(b) Explain the working of thermostat (7)

OR

IV. (a) Describe Splash Lubrication system. (8)

(b) Compare air cooling and water cooling system. (7)

UNIT-II

- V. (a) Explain the working of sliding mesh gear box. (8)
(b) Explain the working of single plate clutch. (7)

OR

- VI. (a) Illustrate the working principle of Differential system. (8)
(b) Explain the working of universal joint. (7)

UNIT-III

- VII. (a) Explain rack and pinion steering gear box. (8)
(b) Distinguish tube-less tyres and tubed tyres. (7)

OR

- VIII. (a) Explain pneumatic braking system. (8)
(b) Distinguish wheel size and tyre size. (7)

UNIT-IV

- IX. (a) Illustrate the working of MPFI (8)
(b) Briefly describe about turbocharger & inter cooler (7)

OR

- X. (a) Explain emissions from automobiles (8)
(b) Explain Antilock Braking system (7)
