TED (15) -	2051
(REVISION -	2015)

Reg. No	
Signature	

## DIPLOMA EXAMINATION IN ENGINEERING/TECHNOLOGY/ MANAGEMENT/COMMERCIAL PRACTICE - APRIL, 2018

## AUTOMOBILE POWER PLANT

[Time: 3 hours

(Maximum marks: 100)

## PART - A

(Maximum marks: 10)

Marks

- Answer all questions in one or two sentences. Each question carries 2 marks. maikulan
  - Define compression ratio.
  - List any four main circuits of carburetor.
  - State the purpose of gravity feed system in petrol engine.
  - List various types of air cleaners in diesel engine.
  - 5. Define the term viscosity.

 $(5 \times 2 = 10)$ 

## PART - B

(Maximum marks: 30)

- Answer any five of the following questions. Each question carries 6 marks.
  - Distinguish between 2 stroke and 4 stroke engines.
  - Describe valve timing diagram of 4 stroke petrol engine with a neat sketch.
  - Explain the working principle of a simple carburetor.
  - Explain briefly the different types of fuel injectors.
  - Illustrate constructional details of fuel injector.
  - Describe splash lubrication system.
  - Explain the purpose of lubrication.

 $(5 \times 6 = 30)$ 

OR

(a) Explain thermo siphon system.

(b) Describe the working of radiator cap with the help of a simple diagram.