TED (15)-	5052
REVISION -	- 2015)

Reg. No	
Signature	

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

AUTOMOBILE TRANSMISSION

[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.
 - vennikulam List two types of clutch operating mechanisms.
 - List two functions of transfer box in vehicles.
 - Define the term final drive.
 - Define the term Divided wheel. 4.
 - List any two type rear axle support mechanisms.

 $(5 \times 2 = 10)$

PART — B

(Maximum marks: 30)

- Answer any five of the following questions. Each question carries 6 marks.
 - Explain the requirements of a good clutch unit in automobiles.
 - Explain the term Double Declutching and the procedure for shifting gears.
 - Discuss the constructional and operational details of Torque tube drive.
 - Differentiate between under inflation and over inflation in Tyres.
 - Write a short note on Fluid Flywheel with a sketch.
 - 6. Illustrate the working principle of CVT with a line diagram.
 - List the factors affecting tyre performance.

 $(5 \times 6 = 30)$

P.T.O.

(a) Sketch the cross-section of a tyre and describe its construction.

(b) Explain the constructional details of alloy cast wheels and list its advantages.