

SECTION - A

Roll No.

24354

**B. Tech 6th Semester (ME)
Examination – May, 2018**

AUTOMOBILE ENGINEERING

Paper : ME-302-F

Time : Three Hours] [Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Question No. 1 is *compulsory*. Students have to attempt *five* questions in all, at least *one* questions from each Section.

- 1. (a) Define the clutch linkage. 5
- (b) What is Universal joint ? 5
- (c) What is Electronics steering ? 5
- (d) What is Evaporative emission control ? 5

- 2. (a) What are various safety consideration in leatest vehicle ? 10
- (b) Explain the principle of multi plate clutch in detail. 10
- 3. Discuss the following : 20
 - (a) Multi plate clutch
 - (b) Front drive vehicle

SECTION - B

- 4. What are different types of gear boxes ? Explain in detail. 20
- 5. Explain the following : 20
 - (i) Propeller shaft
 - (ii) Types of load coming on rear axle

SECTION - C

- 6. What is the need of suspension system ? Explain the types of suspension system in detail. 20

7. (a) Discuss the Toe in/Toe-out. 10
(b) What is Rack & pinion power steering gear? 10

SECTION - D

8. What is the need of braking system? Explain in detail the various types of brakes. 20
9. Write short note on the following : 20
- (i) Purpose and operation of starting system
- (ii) PVC system

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