

Roll No.

24354

B. Tech. (ME) 6th Sem.

Examination – May, 2015

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 : There are 9 questions in all . Question No. 1 is *compulsory*. Students have to attempt *five* questions in total selecting at least *one* question from each Section. All questions carry equal marks.

1. (a) What is vehicle fram ? Explain with neat sketch.

24354-6,850-(P-3)(Q-9)(15)

P. T. O.

(b) What are safety features of latest vehicles ?
Mention briefly.

(c) Explain the principle of overdrive.

(d) What is ECK ?

4 × 5 = 20

SECTION – A

2. Explain front and rear drive vehicles with neat sketch. 20

3. What is clutch ? Explain multiplate and centrifugal clutch. 20

SECTION – B

4. What is gear box ? Explain its types in detail. 20

5. What is differential ? Explain principle and operation of differential. 20

SECTION – C

6. What are springs ? Explain the working and characteristics of leaf springs. 20

24354-6,850-(P-3)(Q-9)(15) (2)

7. What is steering system ? Explain power steering system with neat and clean diagram. 20

SECTION - D

8. Explain the principle of drum brakes. Also discuss constructional details of drum brakes & disc brakes. 20
9. What is lead acid battery ? Explain its construction & operation. 20
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