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DIPLOMA IN MECHANICAL ENGINEERING
(DME)

Term-End Examination, 2019

BME-061 : AUTOMOBILE ENGINEERING

Time : 2 Hours

Maximum Marks : 70

Note : Answer any five questions. All questions carries equal marks.

1. (a) List the various components mounted on truck. Describe the functions of any two. [7]
- (b) Discuss the working of steering mechanism in automobile. [7]
2. (a) Explain the working principle of 4-stroke diesel engine. [7]
- (b) Differentiate between 2-stroke diesel and 2-stroke petrol engine. [7]
3. (a) Discuss the functions of Gear box used in automobile. Write different types of Gear box used. [7]



- (b) Explain the working principle of multiplate clutch with neat diagram. [7]
4. (a) With the help of neat diagram, explain the working principle of disc brake. [7]
- (b) Explain the function of Suspension System used in automobile. [7]
5. (a) Describe the Magneto Ignition System in brief. [7]
- (b) Explain the working principle of a differential gear box. [7]
6. (a) Differentiate between Simple gear train and Compound gear train. [7]
- (b) Write short notes on :- [3.5x2=7]
- (i) Camber angle
- (ii) Caster angle
7. (a) Explain the working principle of Telescopic type shock absorber. [7]
- (b) Write short notes on - Ignition Coil. [7]

8. (a) How the performance of an engine is measured?
Explain briefly. [7]
- (b) Describe propeller shaft and final drive with the
help of the suitable example. [7]

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