No. of Printed Pages: 3

BME-061

DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination, 2019

BME-061: AUTOMOBILE ENGINEERING

Time: 2 Hours] [Maximum Marks: 70

Note: Attempt **any five** questions. All questions carry equal marks.

- (a) With the help of a suitable sketch describe the working of Ackerman's steering system used in automobile.
 - (b) Explain the working principle of a constant mesh gear box with the help of a neat sketch. [7]
- (a) What is need of carburetor an automobile ?
 Explain its working principle. [7]
 - (b) Why ignition system is required in automobile?

 Explain any one of them in detail. [7]

3.	(a)	With the help of neat sketch differentiate explain front wheel drive and rear wheel drive	
	(b)	Explain the working principle of differential box with the help of neat sketch.	gear [7]
4.	(a)	Why clutch is required in an automobile? Cla	issify [7]
	(b)	Differentiate between the functions of clutch	n and [7]
5.	(a)	Explain the general layout of an automobile the help of neat sketch.	with
	(b)	Explain the working of 4 stroke CI Engine.	[7]
6.	(a)	Why suspension is required in automob Explain different types of suspension syste brief.	
	(b)	Differentiate between 2-stroke SI and 4-stro	ke S [7]

7. Write short notes on following:

[4x3½=14]

- (a) Caster Angle
- (b) Lead-acid battery
- (c) Torque Converter
- (d) Fluid Coupling

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