DIPLOMA IN MECHANICAL ENGINEERING (DME)

Term-End Examination

00783

June, 2018

BME-061: AUTOMOBILE ENGINEERING

Tir	ne : 2	hours Maximum Marks	Maximum Marks : 70	
Note: Answer any five questions. All questions carred equal marks. Use of scientific calculator appropriated.				
1.	(a)	Explain different types of Tyres and write their specifications.	7	
	(b)	How do you classify the I.C. Engines ? Explain.	7	
2.		cuss the principle of operation of a stroke cycle, S.I. Engine with a neat sketch.	14	
3.	(a)	Draw a neat sketch of magneto ignition system and explain its working.	7	
	(b)	Explain the working principle of starter of an automobile.	7	
4.	(a)	Differentiate between simple gear train and compound gear train.	7	
	(b)	Describe in brief the transmission system in an automobile.	7	
BME-061		1 P.1	r ()	

5.	(a)	Explain the working principle of universal joint with the help of neat diagram.	7
	(b)	What is the function of propeller shaft in transmission system? Explain.	7
6.	(a)	Explain the construction and working of mechanical brakes.	7
	(b)	List the various advantages and disadvantages of Ignition System.	7
7.	(a)	Explain the working principle of steering gear box with the help of neat diagram.	7
	(b)	Explain with neat sketch the Ackerman's principle of steering in automobiles.	7
8.	(a)	Describe a Coil spring Suspension system.	7
	(b)	What are the different types of Rear Axles? Explain any one with help of diagram.	7