Paper / Subject Code: 42875 / Vehicle Systems (DLOC - III)

1T01437 - B.E.(Mechanical) Engineering)(SEM-VII)(Choice Base Credit Grading System) ((R- 19-20) (C Scheme) / 42875 - Vehicle Systems (DLOC - III) QP Code:10032560 Date:20/06/2023

Duration: 3hrs [Max Marks: 80]

N.I	3. :	 (1) Question No 1 is Compulsory. (2) Attempt any three questions out of the remaining five. (3) All questions carry equal marks. (4) Illustrate your answer with neat sketches wherever necessary. 	SARE
1		Attempt any four from following five questions	S. A.
	a	Explain Toe-out and Caster with a neat sketch.	[05]
	b	Describe Rear engine Rear Wheel drive with advantages and disadvantages	[05]
	c	Describe working of overdrive	[05]
	d	Discuss factors affecting tyre life.	[05]
	e	Differentiate disc brake system with drum brake system.	[05]
2	a	Explain the construction and working of Lead Acid battery.	[10]
	b	Explain working Battery ignition system	[10]
3	a	Describe the construction and working of Double Wishbone type of suspension	[10]
	b	Describe with neat sketch visibility and blind area for a vehicle.	[10]
4	a	Explain significance of differential with its construction and working.	[10]
	b	Describe the construction and working of Rack and Pinion steering gear.	[10]
5	a	Describe tubed tyre with its advantages over the tubeless tyre.	[10]
	b	Explain telescopic shock absorber with a neat sketch.	[10]
6 <	a	Describe construction and working of synchromesh gearbox.	[10]
	b	Explain V2V system of communication in passenger cars	[10]

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