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: 10016050 DAE: 14/12/2022

		Duration: 3 Hours [Max Marks: 80	
N.	В. :	(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.	
1		Attempt any four from following five questions	
	a	Differentiate between AWD and 4WD	[05]
	b	Explain Toe-in and Toe- out with a neat sketch.	[05]
	c	Differentiate disc brake system with drum brake system.	[05]
	d	Discuss factors affecting tyre life.	[05]
	e	Explain the process of double declutching	[05]
2	a	Describe construction and working of constant mesh gearbox.	[10]
	b	Explain working battery ignition system	[10]
3	a	Explain significance of differential with its construction and working.	[10]
	b	Describe Integral structure and semi-Integral structures of vehicle body.	[10]
4	a	Describe radial ply tyres and its advantages	[10]
	b	Describe the construction and working of McPherson Strut type of suspension	[10]
5	a	Explain the construction and working of Lead-acid battery with a neat sketch.	[10]
	b	Explain scope of Artificial Intelligence for automobile application.	[10]
6	a	Explain rack and pinion steering gear box with a neat sketch.	[10]
	b	Describe the construction and working of Telescopic Shock Absorber	[10]

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