30/11/2024 MECH. SEM-VII C SCHEME VEHI. SYSTEMS QP CODE: 10065149

Durat	ion: 3hrs [Max I	Marks:80]
N.B. :	 Question No 1 is Compulsory. Attempt any three questions out of the remaining five. All questions carry equal marks. Illustrate your answer with neat sketches wherever necessary. 	5475h
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1	Attempt any four from following six questions	[20]
a	Explain Multiplate clutch with a neat sketch.	[05]
b	Describe necessity of transmission and its advantages	[05]
c	Explain Electronic Brake Distribution (EBD) system with its advantages.	[05]
d	Discuss functions of tyres in the vehicle.	[05]
e	Explain battery ignition system of vehicle with neat sketch	[05]
f	Discuss various loads on the chassis of vehicle.	[05]
2 a	Explain working principle of epicyclic gearbox with well labeled sketch	[10]
b D	Explain an ZEBRA battery with neat sketch and chemical reactions.	[10]
3 a	Differentiate disc brake system and drum brake system with neat sketch.	[10]
b	Discuss vehicle body styling process used in automobile industries.	[10]
4 a	Discuss radial ply tyres with its advantages.	[10]
b	Describe working of telescopic shock absorber	[10]
5 a	Explain the construction and working of Alternator with a neat sketch.	[10]
b	Differentiate Vehicle-to-Vehicle (V2V) Communication in passenger cars	
P	A Property of the state of the	. [10]
6 Aa	Explain Hydraulic suspension system with a neat sketch.	[10]
b	Explain construction and working of differential with neat sketch.	[10]
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