Paper / Subject Code: 53309 / 6) Automobile Engineering

Friday, May 24, 2019 10:30 am - 01:30 pm 1T01418 - B.E.(MECHANICAL)(Sem VIII) (CBSGS) / 53309 - 6) Automobile Engineering 68054

	Time: 3 Hours	Marks: 80
N.B.	 Qu. 1 is compulsory Solve any three questions out of remaining five. Provide neat diagrams wherever necessary. All questions carry equal marks. 	
Qu.1)	Write short note on following (Any Four) a) Final Drive. b) Disc brake. c) Stub axles. d) Reversibility of Steering Gears. e) Aerodynamic Drag.	[20]
Qu. 2)	A) Classify battery and explain Lead-Acid battery with neat diagramB) State the importance of vehicle body design explain three layouts each Passenger car and bus.	[10] of [10]
Qu. 3)	A) Stating the requirements of suspension, explain Wishbone type suspensystems in detail.B) What are the requirements of starting motors? Explain FOLO-through Dyer drive.	[10]
Qu. 4)	A) With neat diagram explain construction and features of Air suspension	. [10]
	B) Classify gear box and explain sliding mesh gear box with diagram.	[10]
Qu. 5)	A) What is Electronic Control Module (ECM)? Explain. B) With neat diagram explain construction and working of Hydraulic	[10]
	braking system.	[10]
Qu. 6)	Write short note on following. (Any four) a) Steering geometry b) Differential c) Alternator d) Developments in Automobile sensor technology e) classification of Tyres	[20]
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