Seat No.:	Enrolment No
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GUJARAT TECHNOLOGICAL UNIVERSITY

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		 Attempt all questions. Make suitable assumptions wherever necessary. Figures to the right indicate full marks. 	
Q.1	(a)	Classify the three wheelers in details and draw the layout of three wheeler with necessary nomenclature.	07
	(b)	Discuss the basic systems used in two wheelers.	07
Q.2	(a) (b)	Discuss with neat sketch working of continuous variable transmission in detail. Discuss the various resistance offered by vehicle while in motion. OR	07 07
	(b)	Discuss the working of shock absorber with neat sketch used in two wheeler.	07
Q.3	(a)	Enlist different types of frames used in two wheeler. Explain engine based frame and tubular frames in details.	07
	(b)	Discuss the factors affecting road holding characteristics of two wheelers. OR	07
Q.3	(a) (b)	Explain with neat sketch magneto ignition system in details. What is scavenging? Discuss the merits and demerits of loop scavenging over cross scavenging.	07 07
Q.4	(a)	Which are the safety measurements taking into consideration while driving a two wheelers.	07
	(b)	Discuss the factors affecting the stability of two wheelers in details. OR	07
Q.4	(a) (b)	Which are the special requirements of tires for two and three wheelers? Compare cross ply with radial ply tyre in details. Which one is better? Justify	07 07
	(U)	your answer.	07
Q.5	(a)	Explain the working of electric horn with neat sketch in two wheeler.	07
	(b)	Write down the trouble shooting chart for two wheelers. OR	07
Q.5	(a)	With neat sketch explain the working of drum brake.	07
	(b)	Explain with neat sketch centrifugal clutch in details.	07
