

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2170207****Date: 19/11/2018****Subject Name: Two and Three Wheeler Technology****Time: 10:30 AM TO 01:00 PM****Total Marks: 70****Instructions:**

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

		MARKS
Q.1	(a) Classify two wheelers in detail.	03
	(b) Discuss the lubrication system used for two stroke engine in detail.	04
	(c) With the help of neat sketch explain the working of centrifugal clutch.	07
Q.2	(a) Define scavenging? Enlist various scavenging processes.	03
	(b) Write down merits and demerits of shaft drive over chain drive.	04
	(c) Discuss various road resistance offered by vehicle while in motion.	07
OR		
Q.3	(c) Explain the working of continuous variable transmission.	07
	(a) What is the importance of side car in two wheeler?	03
	(b) Explain the battery starting system used in two wheelers.	04
	(c) Explain the working of differential in three wheelers with sketch.	07
OR		
Q.3	(a) Why single plate clutch is not used in two wheelers?	03
	(b) Discuss the various design consideration in two wheelers.	04
	(c) With help of neat sketch discuss the working of kick mechanism for two wheeler.	07
Q.4	(a) Discuss the various methods of lubrication used for two wheelers in brief.	03
	(b) Explain magneto ignition system with neat sketch.	04
	(c) With the help of neat sketch explain the working of two stroke engine.	07
OR		
Q.4	(a) Compare battery ignition system with magneto ignition system with each other.	03
	(b) Compare two stroke engine with four stroke engine.	04
	(c) Differentiate between sports bike, cruiser bike and street bike.	07
Q.5	(a) Enlist the various factors which affect the two wheelers stability.	03
	(b) Explain the working of belt drive in two wheeler.	04
	(c) Discuss various steering bars used for two wheeler in detail.	07
OR		
Q.5	(a) Compare disc brakes with drum brakes.	03
	(b) Draw the trouble shooting chart for any two wheeler.	04
	(c) With the help of neat sketch explain the working of drum brake used for two wheelers.	07
