Seat No.:	Enrolment No.

	I	GUJAKAT TECHNOLOGICAL UNIVERSITY BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2022	
Subi		ode:3160212 Date:16/0	6/2022
•		ame:Two and Three Vehicle Technology	
Time	e:10:3	0 AM TO 01:00 PM Total Mai	ks: 70
Instru	ctions:	At annual all annual annual	
		ttempt all questions. Iake suitable assumptions wherever necessary.	
	3. F	igures to the right indicate full marks.	
	4. S	imple and non-programmable scientific calculators are allowed.	MARKS
0.1	(2)	Define steering terms (1) Poles angle (2) Trail (2) distance Offset	
Q.1	(a)	Define steering terms. (1) Rake angle (2) Trail (3) distance Offset distance	03
	(b)	Explain working of two stroke engine.	04
	(c)	Explain different cranking mechanism employed in two and three	07
		wheeler.	
Q.2	(a)	Explain role of carburetor in two wheeler.	03
	(b)	State the criteria considered to select engine for two wheeler.	04
	(c)	Explain in brief mist and splash lubrication system	07
		OR	
	(c)	List out scavenging methods. Explain loop scavenging system.	07
Q.3	(a)	Define following terms.	03
	. ,	1. Carburation	
		2. Scavenging	
	(b)	3. Air cooling system. State the design consideration for frame.	04
	(c)	Draw and explain the layout of two wheeler transmission system and	07
	(C)	label it.	07
		OR	
Q.3	(a)	Define following terms. (1) Shock absorber (2) Spring (3) Frame	03
	(b)	Explain spoke wheel and split disk wheel.	04
	(c)	Explain mono suspension used in two wheeler with sketch.	07
Q.4	(a)	State the function of suspension system.	03
	(b)	Justify the need of multi-plate clutch in motor cycle.	04
	(c)	Explain difference between battery and magneto ignition system.	07
		OR	
Q.4	(a)	State the material used for frame.	03
	(b)	State main components of battery with their function.	04
	(c)	Differentiate between drum and disk brake.	07
Q.5	(a)	State the function of following system.	03
٧.٠	(4)	1 Fine	•••

2. Radiator

3. Compression ration

(b) Explain ergonomic consideration for two wheeler design.

(c) Explain front telescopic suspension system with sketch.

1

04

07

OR

Q.5 (a)		Define (1) Belt drive (2) Chain drive (3) Shaft drive	03
	(b)	Classify three wheeler and two wheeler.	04
	(c)	Differentiate between two and three wheeler.	07
