GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION - SUMMER 2024

	U	Code:3160212 Date:24-05-202	24
	_	Name:Two and Three Vehicle Technology	
		:30 AM TO 01:00 PM Total Marks:	:70
Instr	uction		
	1. 2.	Attempt all questions. Make suitable assumptions wherever necessary.	
		Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	MADIZO
			MARKS
Q.1	(a)	Explain scavenging used in two wheeler.	03
	(b)		04
	(c)	Explain the construction and working of lead-acid battery.	07
Q.2	(a)	Explain Dog clutch with neat sketch.	03
~ ·-	(b)		04
	(c)	Explain the disc brake used in bikes with neat sketch.	07
	(-)	OR	
	(c)	Compare spokes wheels, alloy wheels and pressed wheels.	07
0.0	()		0.2
Q.3	(a)	Draw the brake circuit layout for two and three wheeler.	03
	(b)		04
	(c)	Explain different cranking mechanism employed in two and three	07
		wheeler.	
0.0	()	OR	0.2
Q.3	(a)	Explain gear shifting mechanism in bike.	03
	(b)		04
	(c)	Explain the working of differential in three wheelers with sketch.	07
Q.4	(a)	Differentiate between tube tyre and tybeless tyre.	03
Q. 4		Discuss the modification required for CNG conversion.	03
	(c)	Explain Construction and working of a carburetor with diagram.	07
	(C)	OR	07
Q.4	(a)	What ate the possible causes of more fuel consumption in two	03
2. 4	(a)	what are the possible causes of more fuel consumption in two wheeler and give its remedies.	US
	(b)	Write down merits and demerits of shaft drive over chain drive.	04
	(c)	Explain preventive maintenance in two and three wheelers.	07
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Q.5	(a)	What is the importance of side car in two wheeler?	03
	(b)	Justify the need of multi-plate clutch in motor cycle.	04
	(c)	Explain front telescopic suspension system with sketch.	07
		OR	
Q.5	(a)	Compare chain drive and gear drive for two wheeler.	03
	(b)	Explain constant mesh gear box with neat sketch.	04
	(c)	Explain starting mechanism for two wheeler vehicles.	07