GUJARAT TECHNOLOGICAL UNIVERSITY

Subject Code:3160213 Date:17-12-2022			
Time:02:30 PM TO 05:00 PM Total Marks:			ks:70
Instru			
	1.	1 1	
	2. 3.	Make suitable assumptions wherever necessary. Figures to the right indicate full marks.	
	3. 4.	Simple and non-programmable scientific calculators are allowed.	
		omple and non-programmable betermine calculators are anowed.	MARKS
Q.1	(a)	Classification of Special Purpose Vehicles.	03
	(b)	Explain advantages & disadvantages of wheel type & & track type vehicle.	04
	(c)	· · · · · · · · · · · · · · · · · · ·	07
		Vehicles.	
Q.2	(a)	Make a layout of tractor & give the name of main components used in	03
~	(4)	tractor.	00
	(b)	Write short note on multi axle vehicles.	04
	(c)	· · · · · · · · · · · · · · · · · · ·	07
		Vehicle.	
	(.)	OR	07
	(c)	Explain working principle and design consideration of final drive.	07
Q.3	(a)	Explain any one type of construction equipment dumper.	03
	(b)		04
	` '	purpose.	
	(c)	Explain gear box used in tractor with neat sketch.	07
		OR	
Q.3	(a)	·	03
	(b)	•	04
	(c)	Explain purpose, construction and working tipper in detail.	07
Q.4	(a)	Explain air brake system with neat sketch.	03
	(b)	•	04
	(c)	Write short note on excavator.	07
		OR	0.0
Q.4	(a)		03
	(b) (c)		04 07
	(C)	Explain flydraune and cable control system of buildozer.	07
Q.5	(a)	Write short note on fire extinguishing vehicle.	03
~··	(b)		04
	(c)	•	07
		thermal stress on human performance.	
		OR	
Q.5	(a)	• • • • •	03
	(b)	· · · · · · · · · · · · · · · · · · ·	04
	(c)	Explain stability and design features of Mobile cranes.	07
