

Enrollment No: _____

PARUL UNIVERSITY
FACULTY OF ENGINEERING & TECHNOLOGY
B. Tech. mid Semester Exam

Semester: 8TH

Subject Code: 203102489

Subject Name: Two & Three Wheeler Technology

Date: 30/01/2024

Time: 10:30 to 12:00

Total Marks: 40

Sr. No.		Marks
Q.1	A. Five One line Questions	05
	1) In two wheeler vehicles the power from the engine is transmitted to the rear wheel. True/False	
	2) Define: Valve timing Diagram.	
	3) List out the two wheeler manufacturers.	
	4) Which company designed the world's first scooter with CVT?	
	5) Define: Medium Speed Engine.	
	B. Five Fill in the blanks	05
	1) Scavenging is the process of _____. (Removal of Burnt Gases, Removal of dust Particles)	
	2) The Four Stroke cycle one cycle of operation in _____ crank angle degrees. (360, 720)	
	3) What is the full form of SOHC?	
	4) In Air Cooled System _____ is provided on the Engine. (Fans, Radiator)	
	5) In V – Twin engines _____ crankshaft will be used. (One, Two)	
Q.2	Attempt any four(Short Questions)	12
	1) Briefly explain various types of motorcycles with their characteristics.	
	2) Describe various design considerations for piston, connecting rod and poppet valve.	
	3) Describe the Classification of three wheelers.	
	4) What is the function of lubrication system? Why it is necessary?	
	5) What is scavenging? Why it is not possible to have ideal scavenging?	
Q.3	Attempt any two questions	08
	1) Explain construction and working of starter motor.	
	2) Compare two-stroke engine with four-stroke engine.	
	3) Write down brief classification of engines.	
Q.4	A. Why scooters are not preferred for long journeys? Also explain layout of scooter.	05
	B. Explain various valve operating mechanisms adopted in two-wheeler engines.	05
	OR	
	B. Explain layout of passenger auto rickshaw with neat diagram.	05