

Q-1	A	Define Automobile. Write down classification of Prime mover.	7
Q-1	B	Explain main parts of an I.C. engine with figure.	7
OR			
Q-1	A	Explain working of petrol engine.	7
Q-1	B	What are advantages & disadvantages of two stroke cycle engine over four stroke cycle engine?	7
Q-2	A	List out the different parts on Automobile & Explain Brake, Brake booster and hand brake.	7
Q-2	B	Explain Tyre with their types & write down their function.	7
OR			
Q-2	A	Explain Various types of Fuel supply system used on petrol and diesel engine.	7
Q-2	B	What is Ignition system of petrol engine? Explain Coil-ignition system.	7
Q-3	A	Explain Supercharging with their objects & Write down different types of superchargers used in this system.	7
Q-3	B	Explain Air-less or Solid fuel injection method with their types.	7
OR			
Q-3	A	Explain Steering system & Write down the requirements of good steering system.	7
Q-3	B	What are the main parts of an engine which requires lubrication? & Write down the advantages served by the lubrication.	7
Q-4	A	Define PTO & Explain their types.	7
Q-4	B	Explain Angle of Approach, Angle of Departure & Ground clearance.	7
OR			
Q-4	A	List out the safety features found in new car. Explain ABS system.	7
Q-4	B	Explain Cooling system of an automobile.	7
Q-5	Answer the following question.		14
	1.	Classify the I.C. engine according to the method of ignition of fuel.	
	2.	What is the function of flywheel?	
	3.	Give the name of main parts of an engine which require lubrication.	
	4.	Write down the difference between the common rail and individual fuel supply system.	
	5.	Which coolant is used for Liquid-cooling system in automobile?	
	6.	How many holes are introduced in MPFI system?	
	7.	The Function of carburetor is mixes the _____ & _____ in correct proportions, for proper combustion.	
	8.	List the types of wheel.	
	9.	How Brake booster plays an important role in automobile braking system?	
	10.	Write a function of Differential.	
	11.	Why the coil-ignition system is required in automobile?	
	12.	Define Ground clearance.	
	13.	Diesel engine has a compression ratio approximately from _____ to _____.	
	i.	5 to 10	
	ii.	10 to 15	
	iii.	15 to 25	
	iv.	25 to 35	
	14.	Theoretically, a two stroke cycle engine should develop _____ the power developed by the four stroke cycle engine.	