

17526

15116 3 Hours / 100 M	larks	Seat No.					
Instructions :	 (2) Answe (3) Illustr (4) Figure (5) Assun (6) Use of permin (7) Mobil 	estions are comer each next mate your answestes to the right in the suitable data of Non-programessible. The Phone, Pager es are not permi	in questions with new modicate functions, if necess and any any any and any any any and any	at sketo all mark ary. dectron	ches w her ks. ic Pocke lectronic (ever ned t Calcu Commun	lator is
							Marks
1. A) Attempt any threea) State functionsb) Write any four	of transmissi	on system in auto		el drive	evehicle.		12
c) Enlist the requi	_	_					
d) Explain the termi) King pin inclii) Camber ang	lination						
B) Attempt any one o a) Justify "Aerod b) Explain the wo	ynamic shape	e of an automobil	-	-			6
2. Attempt any four of the	e following:						16
a) State various types	of automobi	le bodies.					
b) Differentiate between	een coil spring	g and diaphragm	clutch.(ar	ny four))		
c) With neat sketch, e	xplain worki	ng of rack and pi	nion type s	steering	gear.		
d) State the need of di	fferential wit	h neat sketch.					
e) Explain with neat s	ketch, full flo	ating type rear dr	ive.				

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3. Attempt any two of the following:	16
a) Explain with neat sketch, working of synchromesh gearbox.	
b) State the requirements of steering geometry and explain toe in and toe out with neat sketch.	
c) Explain hydraulic braking system with neat sketch.	
4. A) Attempt any three of the following:	12
a) Enlist any four requirements of suspension system in automobile.	
b) Explain construction of air suspension with neat sketch.	
c) Write different colour codes of wires used in automobile wiring system.	
d) Explain the function of Bendix drive in starter system.	
B) Attempt any one of the following:	6
a) Write any six important precautions to be taken while using AC systems in automobile.	
b) State and explain air conditioning parameters for human comfort.	
5. Attempt any four of the following:	16
a) Enlist any four advantages of CDI ignition system.	
b) List the various types of rims used in automobiles and draw neat sketch of any one.	
c) Describe the working of Mac Pherson suspensions with neat sketch.	
d) Differentiate between framed and frameless vehicle.	
e) With neat sketch give the nomenclature of car body.	
6. Attempt any two of the following:	16
a) Enlist the different tests of battery. Explain specific gravity test of battery.	
b) i) Sketch and explain working of fuel level gauge.	
ii) Draw circuit diagram of lighting system of two wheeler.	
c) State any eight probable causes of tyre wear and give its remedies.	