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Time: 2 Hours					AUTO TRANSMISSION		
					Subject Code		
					$oxed{V 3 2 3}$		
Total	No. o	f Que	stions	: 5	(Printed Pages: 3)	Maximum	Marks: 50
INST	RUCI	TIONS	:	(i)	All questions are co	ompulsory.	
				(ii)	Answer each questi	ion on a fresh page	.
				(iii)	Write the number	of questions and s	ubquestions
					clearly.		
				(iv)	Figures to the righ	t indicate full mar	ks.
1. ((A)	Answe	er the	follov	wing questions in one	e sentence each:	
		(i)	State	any a	two advantages of D	iaphragm clutch.	1
		(ii)	Name	e the	components of final of	drive.	1
		(iii)	What	is th	e purpose of breaker	es in Tyres ?	1
		(iv)	Why	are sl	hock absorbers used	in suspension syste	em ? 1
		(v)	Name	the t	type of stub axle more	e popularly used in	heavy duty
			vehicl	les.			1
		(vi)	What	is ca	mber angle ?		1
	(B)	Expla	in the	cons	tructional details of	multiplate clutch v	vith a neat

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2+2

labelled sketch.

2.	(A)	Answer the following questions in short:						
		(i) State any four good qualities the clutch plate should posses	ss. 2					
		(ii) Define the term "Gradient Resistance".	2					
		(iii) Explain in brief the Torque converter of an automobile.	2					
	(B)	Draw a neat labelled diagram of differential unit and explain	ı its					
		working.	2+2					
3.	(A)	nswer the following questions in short:						
		(i) State any four functions of a Gear Box.	2					
		(ii) Compare Hotchkiss drive with Torque tube drive. (any	four					
		points)	2					
		(iii) What are the functions of propeller shaft ? (any four)	2					
	(B)	Draw a neat labelled sketch of 'Wishbone type' independent suspen	sion					
		system and explain its constructional details.	2+2					
4.	(A)	Answer the following questions in short:						
		(i) List out any four requirements of a Road wheel.	2					
		(ii) State the various resistances which will be resisted by the follow	wing					
		frame sections :						
		(a) Channel section	1					
		(b) Tubular section	1					
		(iii) State any four functions of a frame of an automobile.	2					
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	(B)	Explain the working of worm and roller steering gear box with a neat					
		labelled sketch.					
5.	(A)	Answer the following questions in short:					
		(i) Give the characteristics of suspension system. (any four)	2				
		(ii) What is oversteer and understeer?	2				
		(iii) Explain the unloader valve and brake valve used in Air brakin	ng				
		system.	2				
	(B)	Draw a neat labelled diagram of Disc brakes and explain i	ts				
		constructional details. 2-	+2				

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