## 22656

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3	Ho	ours /	70	Marks	Seat	No.							
	Instru	ıctions –	(1)	All Question	s are Comp	pulsory.							
			(2)	Answer each	next main	Quest	ion (	on a	ne	w j	pag	e.	
			(3)	Illustrate you necessary.	ir answers	with no	eat si	ketcl	hes	wł	nere	ver	•
			(4)	Figures to th	e right ind	licate fi	all m	arks	S.				
			(5)	Mobile Phon Communicati Examination	on devices	•							
											]	Ma	rks
1.		Attempt	any	FIVE of the	e following	:							10
	a)	Enlist ar	ny fo	ur main comp	onent of a	utomob	ile.						
	b)	State fur shaft.	nction	of universal	and slip jo	oint us	ed in	pro	ope]	ller			
	c)	State dif	feren	t type of real	axle.								
	d)	State the	fun	ction of Brak	ing System								
	e)	State dri	ves i	used for starti	ng.								
	f)	State an	y fou	r records to	be kept in	service	stat	ion.					
	g)	Write ar	y for	ur responsibili	ty of RTO								
2.		Attempt	any	THREE of	the followi	ng:							12
	a)	Explain	with	neat sketch v	working on	consta	nt m	esh	gea	arbo	X.		
	b)	Describe	wish	nbones type s	uspension s	system	with	nea	t s	keto	ch.		
	c)		_	olain different odynamics.	forces acti	ing on	the	vehi	cle	boo	dy		

d) Explain with neat sketch starting system.

22656 [2]

		Ma	rks						
3.		Attempt any THREE of the following:	12						
	a)	Draw general layout of automobile and lable the component names.							
	b)	Explain with neat sketch hydraulic braking system.							
	c)	Describe construction of Mac pherson suspension system with neat sketch.							
	d)	Draw neat sketch and explain Bendix drive.							
4.		Attempt any THREE of the following:							
	a)	Explain the importance of aerodynamic shape of a car body.							
	b)	Explain with neat sketch of drum brake.							
	c)	Explain with neat sketch tube tyre and tube less tyre.							
	d)	Explain construction and working of alternator.							
	e)	Write role of AIMV.							
5.		Attempt any <u>TWO</u> of the following:	12						
	a)	Draw any six trafic symbols or picture.							
	b)	Explain working principle with neat sketch of single plate clutch							
	c)	Explain steering geometry with neat sketch considering the							
		i) Camber							
		ii) King pin inclination							
		iii) Toe in							
		iv) Castor							
		v) Toe out							
6.		Attempt any TWO of the following:	12						
	a)	Explain procedure of wheel balancing and wheel alignment.							
	b)	Explain working principle and construction of Lead Acid battery with neat sketch.							
	c)	Explain the construction and working of synchromesh gear box with neat sketch.							