22586

	312 Ho		70	Marks	Seat	No.			
	Instru	ictions –	(1)	All Questions	are Comp	ulsory.			
			(2)	Answer each	next main	Questio	on on a	new pa	ige.
			(3)	Illustrate your necessary.	answers v	with nea	t sketcl	hes whe	rever
			(4)	Figures to the	e right indi	cate ful	1 marks	5.	
			(5)	Mobile Phone Communication Examination I	n devices	•			
									Marks
1.		Attempt	any	<u>FIVE</u> of the	following	:			10
	a) Define Automobile and state it's any two examples.b) Name any four warning system used in automotive.								
	c) List any four automotive actuator				ctuators.				
	d)	State ad	vanta	ges of ABS.					
	e) List four meas for system dia			-	ents used	while cl	hecking	signals	
	f) State need of safety system in modern vehicle.								
	g)	State the	e funo	ction of steerir	ng system.				
2.		Attempt	any	THREE of t	he followii	ng :			12
	a)	Name an their fur	•	ur major components of Automobile and state					
	b)	Explain	proce	dure for stand	alone diag	nosis of	autom	otive ser	nsor.
	c) Explain the concept of electronic engine control system				em.				
	d)	*		ept and workin neat sketch.	ng of Antil	ock Bra	king Sy	ystem	

3.		Attempt any THREE of the following :	12				
	a)	Write application of following measuring instrument :					
		i) Oscilloscope					
		ii) Digital Multimeters					
	b)	Explain the working of speed warning system.					
	c)	Describe working of crankshaft position sensor with neat sketch.					
	d)	Describe eloctronic control system used in MPFI.					
	e)	Describe the working of cruise control system.					
4.		Attempt any THREE of the following :	12				
	a)	State the necessity, function and location of suspension system.					
	b)	Explain the concept of Electronic Diesel Control (EDC) unit.					
	c)	Enlist any four diagnostics fault codes with meaning.					
	d)	Explain exhaust gas recirculation actuator with neat sketch.					
	e)	Explain working of oil pressure warning system.					
5.		Attempt any TWO of the following :	12				
	a)	Draw and explain the General vehicle layout block diagram.					
	b)	Explain construction and working of electronic power steering with block diagram.					
	c)	Sketch throttle position sensor and explain it's working.					
6.		Attempt any TWO of the following :					
	a)	Explain approach for components testing in detail.					
	b)	Explain working of oxygen sensor temperature sensor with neat sketch.					
	c)	Explain working of park assist system with block diagram.					