22559

	Ho			Marks	Seat	No.		Ĩ						
Instructions – (1) All Questions are Compulsory.														
			(2)	Answer each	n next main	Que	estic	on c	on a	a ne	ew	pag	e.	
			(3)	Illustrate you necessary.	ur answers	with	nea	ıt sl	ketc	hes	wł	nere	ever	
			(4)	Figures to the	ne right ind	licate	ful	1 m	nark	s.				
			(5)	Assume suit	able data, i	f nec	essa	ary.						
			(6)	Mobile Phor Communicat Examination	ion devices		•							
													Ma	rks
1.		Attempt	any	<u>FIVE</u> of th	e following	•								10
	a)	State types of two wheeler frames.												
	b)	b) Sketch Single Cradle Frame.												
	c)	c) State the function of Air Cleaner.												
	d)	State the	ction of Carb	urettor.										
e) State any two				function of Suspension System of two wheeler.										
f) Define Caster angle a					Frail.									
	g)	State the	pur	pose of using	; LED light	s in	tail	lar	np.					
2.		Attempt	any	THREE of the following: 12										
	a)	Describe constructional details of Double Cradle Frame with neat sketch.						th						
	b)	Explain with nea		ing valve op tch.	eration mec	hanis	m o	of t	WO	wh	eele	er		
	c)	Explain two whe		ing of foot c	perated gea	ır shi	ftin	g n	necł	nani	sm	of		
	d)	Describe	the	working of c	constant me	sh ge	ear	box	•					
													Р.Т	.0.

- a) Describe the tail pipe arrangement of exhaust system with neat sketch.
- b) Describe the working of two wheeler charging system with neat sketch.
- c) Distinguish between kick start and button start arrangement on the basis of effort, battery, convenience and maintenance.
- d) Describe working of microprocessor controlled ignition system with neat sketch.

4. Attempt any THREE of the following:

- a) State the importance of
 - i) Carsh bar
 - ii) Saree guard
 - iii) Jacket
 - iv) Helmet
- b) Describe the Ergonomic aspects of Handle bar position.
- c) Ergonomics plays an important role in passenger comfort. Justify this statement with illustrations.
- d) Explain significance of aesthetic aspect for side panels of scooter.
- e) Explain the Aesthetic Aspects of:
 - i) Ground Clearance
 - ii) Mud Guard Shape and Position

5. Attempt any TWO of the following:

- a) Select frame material for KTM bike and justify it's use.
- b) Describe the diagnosis procedure of exhaust gas analysis.
- c) State the lubrication system used for two wheeler four-stroke engine and explain working with neat sketch.

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6. Attempt any <u>TWO</u> of the following:

- a) Explain the effect of steering geometry on vehicle performance with sketches.
- b) Explain purpose of providing caster angle with schematic diagram for a motor cycle.
- c) Explain the working of ignition system used in two wheeler with neat sketch.

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