23242

3 Hours / 70 Marks

Seat No.				
Scat Ivo.				

Instructions –	(1)) All (Duestions	are	Compulsory.
This it we works	(1	<i>)</i>	Zucstions	arc	Compaisory.

- (2) Answer each next main Question on a new page.
- (3) Illustrate your answers with neat sketches wherever necessary.
- (4) Figures to the right indicate full marks.
- (5) Assume suitable data, if necessary.
- (6) Use of Non-programmable Electronic Pocket Calculator is permissible.
- (7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any FIVE of the following:

10

- a) State the function of relays.
- b) List out different types testing of circuit defect.
- c) Draw a neat sketch of lithium ions battery.
- d) List out different types of alternator testing.
- e) Define starting system.
- f) Define navigation system.
- g) State the function of OBD-II system.

2. Attempt any THREE of the following:

12

- a) Draw a neat sketch of wind shield wiper and state its function.
- b) "Wiring colour code is important factor in lighting system" comment.
- c) "Automotive gauges played the role of priventive maintenance of vehicle". justify your answer.
- d) Define
 - i) Sulphation
 - ii) Battery rating
- e) "Battery played the important role in charging system" comment.

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		M	arks
3.		Attempt any THREE of the following:	12
	a)	Draw a layout of starting system and explain it.	
	b)	Describe construction and working of overruning clutch with it's neat sketch	
	c)	Describe the working of distributorless ignition system.	
	d)	"Preventive maintance is essential in starting system" comment.	
4.		Attempt any THREE of the following:	12
	a)	Define the following navigation system	
		i) GPS	
		ii) GPRS	
	b)	Draw a layout of electric two wheeler and explain function of each components.	
	c)	Describe the construction and working of door lock system.	
	d)	Draw a neat sketch of oxygen sensor and state its function and proper location in vehicle.	
5.		Attempt any TWO of the following:	12
	a)	Draw and explain the wiring diagram of headlight and turn indicators.	
	b)	Describe construction and working of lead acid battery with its neat sketch.	
	c)	"Alternator testing and charging system are interrelated to each other" justify your answer.	
6.		Attempt any TWO of the following:	12
	a)	"Computer controlled ignition system played the important role in starting system" comment.	
	b)	"Due to all sensor used in vehicle increase the efficiency of engine and vehicle life" justify your answer.	
	c)	"Electric fuel injection testing is useful tool in electronic diagnostic system" comment.	