## CHIARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) EXAMINATION – SUMMER 2024			
Sub	iect	Code:3160209 Date:15-05-2	
Subject Name: Automotive Electricals and Electronics			
Time:10:30 AM TO 01:00 PM Total Marks:70			ks:70
Instr	uction	ns: Attempt all questions.	
	2.		
		Figures to the right indicate full marks.	
	4.	Simple and non-programmable scientific calculators are allowed.	Marks
Q.1	(a)	Explain the color codes used in wiring of vehicle electrical system.	03
<b>C</b>	(b)		04
	(c)	Explain the construction and working of lead acid battery in detail.	07
Q.2	(a)	Explain the battery gravimetric test.	03
	<b>(b)</b>		04
	(c)	Draw and explain the construction and working of vehicle wiper system.  OR	07
	(c)	Explain battery capacity rating methods in details.	07
Q.3	(a)	Explain requirements of good starting system.	03
	<b>(b)</b>	Explain four battery failures with their probable causes.	04
	(c)	Explain the construction and working of bendix drive used for starter motor.	07
		OR	0.0
Q.3	(a)	1	03
	(b) (c)	Explain the flywheel magneto charging system in short.  Explain the construction and working of axial sliding armature type starting device.	04 07
Q.4	(a)	Enlist the requirements of good injection system.	03
	<b>(b)</b>	Explain the wiring diagram of indicator lamp in four wheeler.	04
	(c)	Explain the construction and working of head lamp with neat sketch.  OR	07
<b>Q.4</b>	(a)	Explain the effect of reflector design in vehicle headlight in short.	03
	<b>(b)</b>	Explain engine management system in brief.	04
	(c)	Explain the throttle body injection and MPFI system in detail.	07
Q.5	(a)	Enlist the Six dashboard indicator with their function.	03
	<b>(b)</b>	Give the advantage and disadvantage of feedback carburetor system(FBC).	04
	(c)	Explain the construction and working of oxygen sensor.  OR	07
Q.5	(a)	Explain the function of glow plug in brief.	03
	<b>(b)</b>		04
	<b>(c)</b>	Explain the working of oil level indicator with neat sketch.	07

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