BE/SemvIII/CBSGS/AUTO/Autotromics/N.D.17

Q. P. Code: 25788

		(3 Hours)	Total Marks: 80]
N.B:	1.	Question No. 1 is compulsory.	+
	2.	Attempt any Three from remaining questions.	
	3.	Draw neat sketches wherever necessary.	
Q.1		Write comparison (differentiate) between the following: a) Alkaline Battery and Alkaline Fuel cell b) D.C Generator and A.C. Generator	20
		c) Direct ignition & waste spark ignition system. d) Sensors and Actuators	
Q.2	a)	Define and Explain with neat sketches: (i) Air management system a (ii) Rectification from AC to DC.	and 10
	b)	Describe in detail CDI and Distributorless Ignition System with prodiagrams.	per 10
Q.3	a)	Describe the working of AFC (Alkaline fuel cells) in brief with suita	ble 10
	b)	Explain the various Cables, their sizes, color codes and wiring harnes systems used in Automotive Vehicles.	s 10
Q.4	a)	What is the need of 42 volt automotive electrical system? Explain transition from 12 volt to 42 volt system with its advantages and disadvantages.	10
	b)	Discuss with suitable sketches the functioning of any three types of Automotive Sensors.	10
Q.5	a)	Describe the working of any two Intelligent Vehicle systems with suitable schematic diagrams and also mention their applications.	10
	b)	Discuss with suitable sketches the functioning of any three types of Automotive Actuators.	10
Q.6	a) b) c)	Write short-notes on any four of the following: Sealed beam head lamp Standard Bendix drive Power operated windows	20
1	d) e)	Types of Starter motor drives and Torque terms used Automotive embedded system	
