C.U.SHAH UNIVERSITY Summer Examination-2018

Subject Name: Hybrid Vehicles

	Subject Code: 4TE08HYV1					Branch: B.Tech (Automobile)			
	Semeste	r: 8	Date: 26/	/04/2018	Ti	me: 02:30	To 05:30	Marks: 70)
	(2) 1 (3) 1	Use of Pro Instruction Draw neat	ns written on n	alculator & an nain answer b l figures (if ne needed.	book are	strictly to b	be obeyed.	s prohibited.	
Q-1		Attemp	t the followin	g questions:					(14)
	 a) b) c) d) e) f) g) h) i) j) k) l) m) n) 	What is List the Give equ Give equ Give any Define c Why hyl Give sto List diffe How the Give any What typ What is	components u different types uation for road y of non electric component of 1 bride vehicle i rage system u erent types of power transm y three road ch pe of power pl series and par	sed in electric s of battery us l load? tic hybride sys hydraulic syst s preferable in sed in electric motors used i hission takes p haracteristics of lant used in hy allel connectio	sed in hy stem and tem? n compat c hybride in electri- place in e of road te ybrid veh	oride vehic define its re to ordina vehicle? c vehicle? electric hyb o be considuicle?	working ary vehicle? oride vehicle lered for hy		
Attempt any four questions from Q-2 to Q-8									
Q-2		Attemp	t all questions	5					(14)

V -7	Attempt an questions	(14)
a	Explain power transmission of electric vehicle with neat sketch.	07
b	Why BLDC motor is generally used in electric vehicles? Describe.	07
Q-3	Attempt all questions	(14)
a	Explain hybrid vehicles performance characteristics of road vehicles	07
b	Explain dc motor wound with neat sketch	07
Q-4	Attempt all questions	(14)
a	Explain various components used in hybride vehicles	07
b	Explain drive train methods of hybride vehicles	07
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Q-5		(14)	
	a	Explain lead acid battery with neat sketch	07
	b	Explain series and parallel connection of transmission	07
Q-6		Attempt all questions	(14)
	a	Explain regenerative braking system with neat sketch	07
	b	Give specification of power transmission system	07
Q-7		Attempt all questions	(14)
	a	Give different types of fuel used in automobile?	07
	b	Give components of hydraulic vehicles in details.	07
Q-8		Attempt all questions	(14)
C	а	Explain Antilock braking system with neat sketch	07
	b	Give benefits of hybride vehicle over automobile vehicles.	07

