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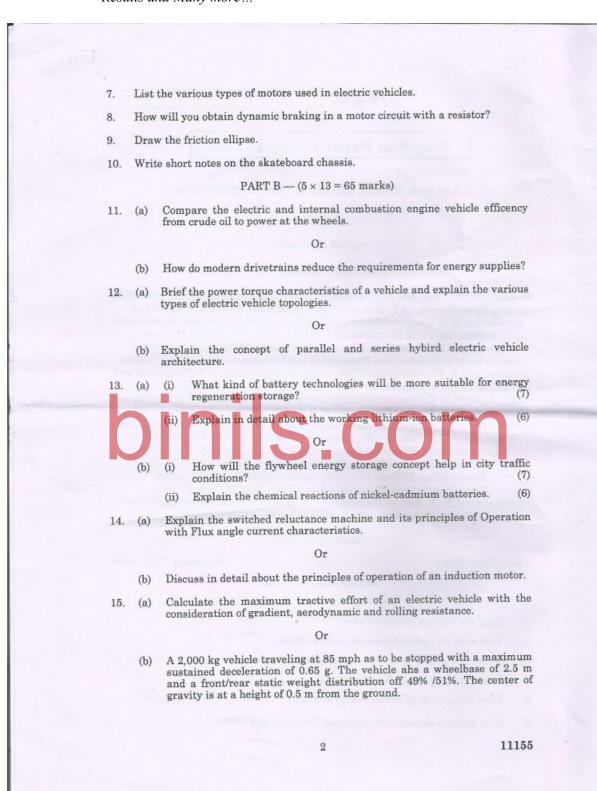
	Reg. No. :			
Q	uestion Paper	Code : 11	155	
M.E./M	I.Tech. DEGREE EXAM	MINATIONS, APP	IL/MAY 2023.	
	Ele	ective		
	Applied	Electronics		
0	ME 434 – ELECTRIC	VEHICLE TECH	NOLOGY	
and Cyber Sec Networking/M.E. Engineering Learning/M.E. Networks)/M.E. Processing/M.E. F Communication Technologies/M.E. Management/M.E. Multimedia Technologies/M.E. Engineering/M Engineering/M Embedded Biotechnot Technology/M.Technology/M	curity/M.E. Communication of Computer Science and Gomputer Science and Communication E. Computer Science and Construction Engineer Electronics and Communication Engineering (Industrial Engineering) (Industrial Electronics) Industrial Electronics) (Industrial Electronics)	tion Systems/M.E. Engineering/M.I. Artificial Intellid Engineering (Wing and Manageminication Engineerry Integrated)/M. Ering/M.E. Infras M.E. Mobile and Petronics and Driving/M.E. Soil Meclering/M.E. VI.ST. Charmaceutical Tell Engineering/M.T. eand Technology d GIS/M.Tech. Te	C. Computer Science and gence and Machine Vith Specialization in tent/M.E. Digital Signal ing/M.E. Electronics and E. Embedded System tructure Engineering and Engineering A.E. Power Systems and Foundation design/M.E. VLSI and chnology/M.Tech. Vech. Information /M.Tech. Plastics at Information /M.Tech. Plastics at Information /M.Tech. Plastics	l d
Toxulo		tions 2021)		
Time : Three hours	s		Maximum: 100 mark	8
	Answer AI	L questions.		
	PART A — (10	$0 \times 2 = 20 \text{ marks}$		
1. Brief the con	cept of well-to-wheel.			
Comment on	a carbon monoxide and	its effects.		
3. Write short r	notes on traction motor	characteristics.		
4. What do you	mean by E-differential	?		
Brief the con	cept of hybird energy s	torage.	a little legioners	
6. How will you	calculate the theoretic	cal capacity of a b	attery?	

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- Find the total force and average power required to bring the vehicle to a stop.
- (ii) Find the average power absorbed by the brakes.
- (iii) Find the front and rear weight distribution during braking.

PART C — $(1 \times 15 = 15 \text{ marks})$

 (a) Design an electric vehicle braking system with and without gradient and comment on the wheel locking and loss of vehicle directional stability.

On

(b) What are the choices available for the designers to maximize the electric vehicle range? Comment on the power requirements to overcome each parameter.

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