CBCS SCHEME

USN		21AU741

Seventh Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025 Safety of Electric Vehicles

Max. Marks: 100 Time: 3 hrs.

	No	ote: Answer any FIVE full questions, choosing ONE full question from each mo	aute.			
1	a.	Module-1 State the importance of design of vehicle body for safety. Identify necessary for safety.	eatures of a (10 Marks)			
	b.	safe vehicle body. Explain the influence of engine placement on safety features of a vehicle.	(10 Marks)			
2	a.	OR Conclude the deceleration of vehicle, impact with movable obstacle.	(10 Marks)			
	b.	Write notes on the following: (i) Crumble zone (ii) Safety sandwich construction	(10 Marks)			
		Module-2				
3	a.	Describe Driving Safety and Operating Safety in Active Safety systems.	(10 Marks)			
9	b.	Discuss the safety concepts and why it is important.	(10 Marks)			
		OR	(10 M 1)			
4	a.	Compare exterior safety with interior safety.	(10 Marks)			
•	b.	Summarize deformation behaviour of vehicle body.	(10 Marks)			
		Module-3	(10 Marks)			
5	a.	Highlight the cruise control system with a neat sketch.	(10 Marks)			
	b.	Illustrate the Tire pressure monitoring system with a block diagram.	(10 //1111)			
		OR	(10 Mowles)			
6	a.	Discuss the seat belt and components. State its regulations.	(10 Marks) (10 Marks)			
	b.	Demonstrate the working of airbag and its components.	(10 Marks)			
		Module-4	(10 Marks)			
7	a.	Explain the components of a collision warning system.	(10 Marks)			
	b.	1'1biggt detection system	(10 Marks)			
		OR	(10 N/L			
8	a	Analyze the working of central locking system.	(10 Marks) (10 Marks)			
	b	a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(10 Marks)			
		Module-5	(10 Marks)			
9	a	. Identify the steps involved in maintenance of cooling and lubrication systems.	(10 Marks)			
	b	p : 1 1 1 1 1 a f angina management service and fault diagnosis.	(10 1111111)			
		OR (10 Mor				
1	0 a	Explore the general checks, adjustment fault diagnosis of steering system.	(10 Marks) (10 Marks)			
	b	· · · · · · · · · · · · · · · · · · ·	(10 (1111110)			