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	APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY Seventh Semester B.Tech Degree (S, FE) Examination May 2024 (2015 Scheme)	A SOLUTION
	Course Code: MR407	THY A
	Course Name: AUTOTRONICS	The state of the s
Max. M	arks: 100 Duration: 3	Hours
	PART A	
	Answer all questions, each carries 5 marks.	Marks
1	Illustrate and describe about engine ignition system.	(5)
2	Write a note on manifold pressure sensor.	(5)
3	Describe fuel injection system with the help of neat block diagram.	(5)
4	Draw and write about electronic clutch.	(5)
5	List out the various components of hybrid vehicle also write a small note about	(5)
	each components.	()
6	Write down the recent developments held in hybrid vehicles?	(5)
7	With the help of an example write the importance of object detection	(5)
	intelligence.	
8	Write a small note on vehicle intelligence also explain the recent development	(5)
	on vehicle intelligence.	
•	PART B	
	Answer any three full questions, each carries 10 marks.	
9	Make a chart of types of engines also explain their applications.	(10)
10 .	Describe the importance of braking system used in vehicles and also write a.	(10)
	short note on ABS advantages.	
11	Illustrate high pressure diesel fuel injection system and explain its working.	(10)
12	List out different types of fuel injection system used in automobiles also explain	(10)
	any one type with relevant diagram.	
13	Explain all the comfort system made for the traveller for their easement.	(10)
e	PART C Answer any two full questions, each carries 15 marks.	

Discuss and write about types of hybrid vehicles.

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15	Draw and Compare parallel and series hybrid vehicles. Also select the	(15)
	advantages of hybrid vehicle.	
16 a)	Identify the object collision warning and avoidance system.	(10)
b)	Give a possible application for mobile robot vision to a vehicle information	(5)
	system.	
17	Discuss about vision based autonomous road vehicles and their functioning.	(15)
