(3 Hours)		rs) (Maxim	(Maximum Marks: 80	
NB.	1. (Question number one is compulsory		
		2. Attempt any three out of the remaining five questions		
	3. Assume suitable data			
	4.]	Figures to the right indicate the maximum marks		
Q1		Attempt any FOUR:	(20)	
	a)	Elaborate on challenges in the current deployment of Autonomous Vehicles.		
	b)	What are the benefits of self-driving cars?		
	c)	Explain the five core components of Autonomous vehicles.		
	d)	Compare different types of sensors in SDCs.		
	e)	Illustrate different CAN protocol layers.		
Q2	a)	Explain different Levels of Autonomy in SDC.	(10)	
	b)	Write a short note on Vehicle to Everything Infrastructure.	(10)	
Q3	a)	Write a short note on operating systems used in SDC.	(10)	
	b)	What is GNSS? Explain how Error Analysis is affecting the performance of GNSS	5. (10)	
Q4	a)	Explain topology in flex ray protocol.	(10)	
	b)	Explain what behavioral decision in SDC is. What are different input data sources take behavioral decisions?	to (10)	
Q5	a)	Explain the dragonfly model, Sensor configuration, and software architecture.	(10)	
	b)	Write a short note on SVM and how it is helpful in SDC.	(10)	
Q6	a)	Write a short note on HOG.	(10)	
	b)	Explain the architecture of YOLO.	(10)	
