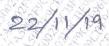
## Paper / Subject Code: 41655 / Automotive Embedded Systems (DLOC - III)

## BE/Sem VII/CBCGS/AUTO/ND-2019



## (3 Hours)

## **Total Marks-80**

N.B.:		estion No: 1 is compulsory.	
2. Solve any three questions out of remaining questions.			
3. Assume Suitable data where necessary.			
Q 1]	a)	Define system bus and explain its types.	05M
	b)	Define serial port.	05M
	c)	Define the following terms:-	05M
		i) Register ii) Memory devices	
	d)	Explain features of Pulse Width Modulator.	05M
Q 2]	a)	Draw and explain the block diagram of Embedded Systems.	10M
	b)	Write short notes on Code Warrior IDE.	10M
Q 3]	a)	Explain any two Serial communication protocols.	10M
	b)	Explain modes of operation of MC9S12XD.	10M
Q 4]	a) (	Draw and explain functional block diagram of MC9S12XD.	10M
	b)	Write a short note on Serial Communication Interface.	10M
, O			
Q 5]	a)	Explain in brief X by Wire Technology and also explain Steer by wire and	10M
		power by wire with suitable example each.	
	b)	Explain in detail the features of MC9S12XD.	10M
Q 6]	a).	Explain Power window with focus on embedded technology.	10M
	b)	Explain in brief any one Embedded Automotive Protocol.	10M

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