Code No.: EC57103PE2

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CMR ENGINEERING COLLEGE: : HYDERABAD UGC AUTONOMOUS

I-M.Tech-I-Semester End Examinations (Regular) July- 2021 COMMUNICATION BUSES AND INTERFACES

(VLSI System Design)

[Time: 3 Hours]

[Max. Marks: 70]

- 1. Answer Any FIVE Questions. Each Question Carries 14 Marks
- 2. Illustrate your answers with NEAT sketches wherever necessary.

		5 x 14M=70M
1	a. Explain I2C protocol in detail.b. Compare RS232 standards with RS485 standards.	[7M] [7M]
2	a. Explain interfacing PIC microcontroller with CAN busb. what are the different types of errors in CAN bus.	[7M] [7M]
3	a. Elaborate any one of the application of PCIe.b. Explain about data link layer used in PCIe.	[7M] [7M]
4	a. Explain different transfer types in USBb. Write short notes on USB 2.0 transaction	[7M] [7M]
5	a. Explain data transfer process in serial FPDPb. Explain different control signals in serial FPDP.	[7M] [7M]
6	a. Explain data and error frame formats in CANb. Define bit stuffing in CAN bus	[7M] [7M]
7	a. Write short notes on PCI express.b. Write short notes on SPI.	[7M] [7M]
8	a. Define copy mode and copy/loop mode in SFPDP.b. Write short notes on device drivers.	[7M] [7M]
