BICSE-001

No. of Printed Pages : 2

B.Tech. - VIEP - COMPUTER SCIENCE AND ENGINEERING (BTCSVI)

Term-End Examination

June, 2019

00525

BICSE-001 : EMBEDDED SYSTEM

Maximum Marks : 70

Time : 3 hours

Note: Attempt any seven questions. All questions carry equal marks.

1.	(a)	Describe the architecture of a microprocessor with the help of neat	5
	(b)	diagram. How does ISA bus architecture differ from PCI bus architecture ?	5
2.	(a) (b)	Explain Cross Compiler in detail. What is Round Robin with interrupts ? Drav and explain the Communication Bridge.	5 w 5
3	(a) (b) Compiler Selection	5 5 P.T.O
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and microcontroller.	OS ? 5 veen 5
 5. (a) Design and implement EX-OR gate usi minimum number of NAND gates. (b) Describe the difference between RTOS a Windows/Unix based OS. 	ng
 6. (a) What are the different embedded fil formats? How can we create object files? (b) How can we handle the trigger group events? Write the program. 	5 of
7. Explain the different functions of embedded operating system.	5 10
 8. Explain the embedded system life cycle with the help of block diagram. 9. (a) What is DMA ? Draw the architecture of DMA. 	10
(b) How should the interrupt routines work ?10. Write short notes on the following :	5 5
 (a) Linker/Locator for Embedded Software (b) Time-slicing 	5 5

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