С14-ЕС-605

4739

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL-2019

DECE - SIXTH SEMESTER EXAMINATION

ADVANCED MICRO CONTROLLERS

Time: 3	3 Hours]
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[Max. Marks: 80

PART-A

3x10=30M

- **Instructions :** 1) Answer **all** questions.
 - 2) Each question carries Three marks.
 - 3) Answer should be brief and straight to the point and shall not exceed simple sentences.
- 1) List any six features of PIC 16F877.
- 2) List the bit oriented instructions of PIC 16F877.
- 3) List any three Applications of PIC Micro Controller.
- 4) List the operating modes of ARM7
- 5) What is Thumb mode in ARM.
- 6) List any three arithemetic instructions of ARM7 processor.
- 7) Mention three applications of various versions of ARM.
- 8) What ia an Embedded system?
- 9) Define multi-processing and multi-tasking.
- 10) List three Types of RTOS.

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Instructions: 1) Answer any five questions.			
		2) Each question carries ten marks.	
		 The answer should be comprehensive and the crite for valuation is content but not the length of the answer. 	eria
11)	(a) Draw	v the pin diagram of PIC 16F877.	5M
	(b) Expla	ain Program memory and Data memory of PIC 16F877.	5M
12)	Explain t	the follwoing instructions of PIC 16F877 with suitable	
	example	es.	
	i) MOVW	VF f ii) COMF f,d iii) ADDLW k iv) GOTO k	10M
13)	Draw and	d explain the interfacing of DC motor with PIC 16F877.	10M
14)	Draw and	d explain Block diagram of PIC 16F877.	10M
15)	(a) Com	pare CISC and RISC Architecture	5M
	(b) Draw	v ARM Core Architecture	5M
16)	(a) Com	pare the Different versions of ARM.	5M
	(b) Expla	ain Registers of ARM7 Processor	5M
17)	Explain a	addressing modes of ARM7 Processor	10M
18)	(a) Write	e a short note on Embedded firm ware	6M
	(b) Com	pare Normal OS and RTOS	4M

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