DIPLOMA - VIEP - ELECTRONICS AND COMMUNICATION ENGINEERING (DECVI)/ ADVANCED LEVEL CERTIFICATE COURSE IN ELECTRONICS AND COMMUNICATION ENGINEERING (ACECVI)

Term-End Examination December, 2017

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BIEL-031: MICROCONTROLLER

Time: 2 hours Maximum Marks: 70

Note: Attempt any five questions. Question no. 1 is compulsory. All questions carry equal marks. Use of scientific calculator is allowed.

- 1. (a) What is Handshaking?
 - (b) Compare the features of 8155 and 8355.
 - (c) What is the need of external and internal program memories?
 - (d) Mention any four addressing modes of 8051 microcontroller.
 - (e) Differentiate between microprocessor and microcontroller.
 - (f) List various assembler directives.
 - (g) What is the need of peripheral devices? $7\times2=14$

2.	(a)	Describe various data transfer techniques with suitable examples.	7
	(b)	Explain series and parallel communication with necessary diagram.	n 7
3.	proce	t do you mean by Interfacing? Explain the edure of interfacing the temperature control em with 8085 microprocessor.	14
4.		w and explain Harvard and von Neumann outer architecture.	14
5.	(a)	Draw and explain the pin configuration of 8051 microcontroller.	7
	(b)	Compare EEPROM and FLASH memory.	7
6.	-	ain various instruction sets of MCS-51 ocontroller with appropriate example.	14
7.	Write short notes on any two of the following : $2 \times 7 = 14$		
	(a)	Data Types and Directives of 8051	
	(b)	Software Simulators of 8051	
	(c)	Interfacing of D-to-A Converter with 8085 Microprocessor	