Roll No.			
	3 1	1 1 1	1 1 1 1

B.E./ B.Tech (Full Time) DEGREE END SEMESTER EXAMINATION, APRIL / MAY 2011 ELECTRONICS AND COMMUNICATION ENGINEERING BRANCH

FIFTH SEMESTER

EC372 – MICROPROCESSOR AND ITS APPLICATION (REGULATIONS 2004)

Time: Three hours.

Maximum: 100 marks

Answer All Questions.

Part A

10 X 2 = 20 Marks.

- 1. What is the role of SID and SOD pin available in 8085 microprocessor?
- 2. Explain the instruction DAD available in 8085.
- 3. Give the flags available in 8086.
- 4. What is pipelining.
- 5. How many register banks are available in 8051?
- 6. What are the two pins associated with counters in 8051?
- 7. Give the block diagram for DMA controller IC.
- 8. What is inter integrated circuits interfacing.
- 9. Draw the pin details of (16 x 2 line) Liquid Crystal Display.
- 10. What is an alpha numeric display?

Part B

 $5 \times 16 = 80 \text{ Marks}.$

11(a).(i).Explain the architecture of 8086 microprocessor.

(8 Marks).

(ii). Explain the maximum mode operation of 8086 microprocessor.

(8 Marks).

P.T.O

		,
. 12.(a) With a neat block diagram explain the architecture of 8051 microcontroller.		(16 Marks).
(OR)		
12.(b).(i).Explain the types of jump instructions available in 8051.		(8 Marks).
(ii). Explain the timer / counter programming in 8051.	,	(8 Marks).
13.(a). With a neat diagram explain the interrupt process available in 8085?		(16 Marks).
(OR)		
13.(b).Draw the timing diagram for the 8085 instruction CALL. Assume other rele	evant details.	(16 Marks).
14.(a) With a neat block diagram explain the working of the Programmable displa	ny controller 10	C 8279.
14.(a) With a neat block diagram explain the working of the Programmable displa	ay controller 10	(† 8279. (†6 Marks).
14.(a) With a neat block diagram explain the working of the Programmable displa (OR)	ay controller 10	
	ay controller 10	
(OR)	ay controller 10	(16 Marks).
(OR) 14.(b)(i) Explain the IC 8259 with a neat block diagram.		(16 Marks). (8Marks). (8Marks).
(OR) 14.(b)(i) Explain the IC 8259 with a neat block diagram. (ii)Explain the IC 8251 with a neat block diagram. 15.(a).With a neat block diagram and schematic explain the construction and work		(16 Marks). (8Marks). (8Marks).
(OR) 14.(b)(i) Explain the IC 8259 with a neat block diagram. (ii)Explain the IC 8251 with a neat block diagram. 15.(a).With a neat block diagram and schematic explain the construction and work smart scale.		(16 Marks). (8Marks). (8Marks).