S. NO.: **278**   BATCH: **94 – 2016**   Reg. No.: [   ]   8

END OF SEMESTER EXAMINATIONS, NOVEMBER – 2017
MICROPROCESSORS AND ASSEMBLY LANGUAGE PROGRAMMING
SUBJECT CODE : 08UACS07/**08UAIT09**

MAJOR : B. Sc (CS)/**IT**   SEMESTER : III
TIME : 3 HOURS   MAX. MARKS: 75

SECTION A – (5 X 2 = 10)

Answer All the Questions:

1. Mention the use of LDA and STA instructions.

2. What are Time delays?

3. Specify the use of Programmable Interrupt Controller.

4. What is USART?

5. Define the term Microcomputer.

SECTION B – (5 X 4 = 20)

Answer All the Questions:

6. a) Explain briefly the basic Interfacing concepts.
   (OR)
   b) Describe the concept of Memory-mapped I/O.

7. a) Discuss on Programming techniques - Looping, Counting and Indexing.
   (OR)
   b) Explain the Logic operations – Rotate and Compare.

8. a) Describe briefly the organization and functioning of Keyboard and Seven-segment display interface.
   (OR)
   b) Discuss briefly on working of DMA Controller.

9. a) Write short notes on 8259A Programmable Interrupt Controller.
   (OR)
   b) Explain briefly the functions of 8279A Programmable Keyboard / Display Interface.

10. a) Describe the method of interfacing a Matrix Keyboard.
    (OR)
    b) Discuss on Single chip Microcontrollers.

SECTION C – (3 X 15 = 45)

Answer any THREE Questions:

11. Discuss in detail on Microprocessor architecture, its operations and memory organization.

12. Explain the organization of Stack and its functions.

13. Write a detailed note on 8085 Interrupts.

14. Describe the Basic concepts in Serial I/O.

15. Explain the method of designing Scanned display.

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