

**D 53019**

**(Pages 2)**

**Name**

**Reg. No. ....**

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION, JANUARY 2014**

**(CUCSS)**

**Computer Science**

**CSC 1C 05—ADVANCED MICROPROCESSOR**

**Time : Three Hours**

**Maximum : 36 Weightage**

**Part A**

*Answer **all** questions.*

*Each question carries **1 weightage**.*

1. Draw block diagram of 8085 flag register.
2. What is DMA ?
3. Differentiate 8086 and 8088.
4. List the hardware interrupts in 8086.
5. What do you mean by linking ?
6. Calculate the physical address corresponding to **A300 : 08BF**.
7. Write 8086 Assembly Language instruction sequence **required to add two BCD numbers equivalent** to decimal 84 and 32, stored in the memory.
8. List any *four* program control instructions.
9. Explain about the video modes.
10. What do you mean by direct video display ?
11. What is a boot record ?
12. Compare the advanced microprocessors in terms of word **length**.

**(12 x 1 = 12 weightage)**

**Part B**

*Answer any **six** questions.*

*Each question carries **2 weightage**.*

13. Explain **the register organization of 8085**.
14. Explain any **four assembler directives**.
15. Write a **complete assembly Language Program to arrange 3 names stored in memory in alphabetic order**. [ make necessary assumptions regarding the storage of data/result].
16. Explain any **four INT 21 H keyboard functions**.

**Turn over**

17. Write and explain any *four* INT 10 H operations.
18. Write and explain INT 21 H functions for reading disk files.
19. How will you define Macros ? Give suitable example.
20. Differentiate 80386 and 80486.
21. List important features of Power PC.

(6 x 2 = 12 weightage)

### Part C

*Answer any three questions.  
Each question carries 4 weightage.*

22. Discuss 8085 interrupt system.
23. Discuss 8086 Architecture.
24. Write a complete assembly language program to read n integers and output the largest and smallest integers.
25. Give a detailed account of Keyboard input operations.
26. Give a detailed account of disk organization.
- p27. Discuss the architecture and important features of Pentium IV.

(3 x 4 = 12 weightage)