D 33370 **(Pages : 2)** **Name**

Reg. No.....

FIRST SEMESTER M.Sc. DEGREE EXAMINATION
FEBRUARY 2013

(CUCSS)

Computer Science

CSC 1C 05 – ADVANCED MICROPROCESSOR

(2010 Admissions)

Time : Three Hours Maximum : 36 Weightage

Part A

Answer **all** *questions.*

Each question carries 1 weightage.

1. With the help of neat diagram, explain clock signal. What is the major role of clocks in a microprocessor?
2. Explain the specific role of A register in 8085.
3. What do you mean by programmed I/O?
4. Differentiate between 8086 and 8088.
5. Give the assembler directives for declaring symbolic data in an assembly language program.
6. List and explain any *four* data transfer instructions.
7. Explain segment-offset addressing.
8. What is a scan code? Explain any *one* application of scan code.
9. Explain the processing of BCD data.
10. State the important video modes and attributes.
11. Explain the process of program loading.
12. List any *one* Motorola processor and high light its important features.

(12 x 1 = 12 weightage)

Part B

Answer any **six** *questions.*

Each question carries 2 *weightage.*

13. Explain fetch-execute cycle. Draw the timing diagram for any instruction of your choice (8085/8086).

Turn over

14. Write a complete assembly language program to evaluate the expressions = a * b + a * d/e. All data are 16 bit unsigned integers.

15. How do you define and process tables in assembly language programs? Illustrate with suitable example.

16. With suitable examples, explain macro definition and macro call.

17. Write a note on File allocation table.

18. Explain any *four* INT 10H operations.

19. Explain the following INT 21 H functions: 07, 09, 3D, 3E.

20. Compare 8086 and 80386.

21. List and explain the important features of 80486.

(6 x 2 = 12 weightage)

Part C

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

22. Discuss the architecture of 8085.

23. Discuss addressing modes of 8086.

24. Explain string operations. Illustrate with suitable examples.

25. Discuss INT 2111 and INT 17H functions for printing.

26. Discuss INT 09H operations.

27. Compare features of Pentium II, III and W.

(3 x 4 = 12 weigh,