

**FIRST SEMESTER M.Sc. DEGREE EXAMINATION
JANUARY 2011****CSC 1 C05 – ADVANCED MICROPROCESSOR**

(2010 Admissions)

Time : Three Hours

Maximum Weightage : 36

I. Answer *all* questions :

1. Explain 8085 flag register.
2. Explain any *four* program control instructions in 8086.
3. Define Interrupt. List 8085 hardware interrupts.
4. List and explain four assembler directives.
5. Explain the linking process.
6. Explain near and far address.
7. How will you detect the current video mode?
8. What is the purpose of keyboard buffer?
9. What is a boot record?
10. What do you mean by overlays?
11. List any *four* differences between 80486 and Pentium.
12. List any *four* distinguishing features of Power PC.

(12 x 1 = 12 weightage)

II. Answer any *six* questions :

13. Explain instruction execution timing. Draw the timing diagram of any instruction of your choice.
14. Write notes on 8085 DMA system.
15. Explain **MOVS** and **CMPS** with suitable sample codes.
16. Use hex notation to show the decimal value 4127 in the following formats :
ASCII, unpacked BCD and Packed BCD.
17. Explain any *four* INT 10H functions.
18. Explain INT 16 H functions : 10H, 11H, 12H and 05H.

Turn over

19. Explain structure of file allocation table.
20. Compare 80286, 80386 and 80486.
21. Discuss any *four* INT 21 H functions for printing.

(6 x 2 = 12 wei

III. Answer any *three* questions :

22. With neat diagram, explain 8086 architecture.
23. With suitable examples, discuss 8085 addressing modes.
24. Write an assembly language program which performs the operation **equivalen'**
 $X = 5 * Z + Y / W$.
 Assume all operands are 16 bit binary data.
25. Explain processing of tables in Assembly Language Programming. Illustrate with **subt** examples.
26. (a) Write notes on video modes and attributes.
 (b) Write notes on Macros.
27. (a) Discuss distinguishing features of Pentium IV.
 (b) Give the register organization of Pentium IV.

(3 x 4 = 12 weightage)