DISTANCE EDUCATION

B.C.A. DEGREE EXAMINATION, MAY 2008.

MICROPROCESSOR AND PERSONAL COMPUTERS

(2003 onwards)

Time : Three hours   Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks.

$(5 \times 20 = 100)$

1.   (a)   Compare Microprocess and Micro computer.   (6)

      (b)   Write briefly on SSI, MSI and VLSI.   (14)

2.   (a)   Write the general architecture of a microprocessor with illustration.   (10)

      (b)   Discuss in detail on general and special purpose registers.   (10)

3.   (a)   Write briefly on Interrupts.   (8)

      (b)   Discuss the functional block diagram of 8085.   (12)

4.   (a)   What are instruction set? Illustrate briefly   (6)

      (b)   Write the addressing modes in 8085 and the functions of instructions.   (14)

5.   (a)   Write briefly on control Instructions and Instructions cycle.   (12)

      (b)   Explain on information movement instructions and instruction format.   (8)

17

6. (a) Discuss in detail on ALP and 1^s and 2^s complement of numbers. (10)

    (b) Explain briefly on any three semiconductor memory family. (10)

7. (a) Illustrate in detail on memory mapped I/O and DMA. (10)

    (b) Discuss in detail on 80486, SIMMS and EISA. (10)

8. (a) Explain in detail on BIOS, IDE and SVGA. (8)

    (b) Illustrate in detail on Active and Passive preventive maintenance procedures. (12)

————————————