

DISTANCE EDUCATION

B.C.A./B.C.A. (Lateral) DEGREE EXAMINATION, DECEMBER 2010.

MICROPROCESSORS AND PERSONAL COMPUTERS

(2003 onwards)

Time : Three hours

Maximum : 100 marks

Answer any FIVE questions.

All questions carry equal marks. (5 × 20 = 100)

1. (a) Describe the capabilities of microcomputer. Also compare with microprocessor. (10)
- (b) Explain the important features of VLSI technology. (10)
2. (a) Describe the registers available in 8085. (10)
- (b) What is Interrupt? What are the interrupt signals available in 8085? Explain them. (10)
3. (a) Describe the different types of addressing modes available in 8085. (12)
- (b) Write about instruction cycle with an example. (8)
4. (a) Write the general format of an assembly language instruction and explain. (8)
- (b) Write an ALP to find the maximum of three single bytes. (12)
5. (a) Describe the functions of any two semiconductor memory. (10)
- (b) Explain how can you expand the memory size. (10)
6. (a) Compare isolated I/O with memory mapped I/O. (8)
- (b) Explain the DMA transfer. (12)
7. (a) Describe the main features of Pentium processor. (10)
- (b) Why we need drive controller? Explain. (10)
8. (a) Explain the procedures of Active Preventive maintenance. (10)
- (b) Explain the importance of Data Backup System. (10)