

DE-4035**21**

DISTANCE EDUCATION

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

MICROPROCESSOR 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) Discuss in detail on Microcomputers and Evaluation of Microprocessor. (8)
(b) Illustrate in detail the Microprocessor based system block diagram and LSI and VLSI. (12)
2. (a) Discuss in detail on Microprocessor Registers. (10)
(b) Illustrate in detail on ALU, Timing and Control circuit. (10)
3. (a) Discuss in detail on Information modification Instructions. (6)
(b) Explain with illustration of the addressing modes of 8085 and control instructions. (14)
4. (a) Write notes on Assembly language and explain the multiplication and division of two numbers. (15)
(b) Discuss the 1^s and 2^s complement of numbers. (5)

5. (a) Discuss in detail on Memory hierarchy and Disk capacities. (6)
- (b) Illustrate in detail on SRAM, DRAM, EPROM and memory organisation. (14)
6. (a) Explain Parallel transmission and programmed I/O. (10)
- (b) Discuss in detail on Isolated I/O and Interrupt I/O. (10)
7. (a) Explain Bus slots, I/O cards and pentium processor. (8)
- (b) Discuss in detail on Memory banks, BIOS and PCI. (12)
8. (a) Discuss the Importance of preventive maintenance. (8)
- (b) Explain power protection system, passive preventive maintenance system. (12)
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