

Q2 (a) Write an assembly language program to move a block of data from one section of memory to another section of memory using 8085 microprocessor.

Answer Article 14.1-14.6 of Textbook

Q2 (b) Write an assembly language program to find the BCD of a binary number.

Answer Article 16.7 of Textbook

Q3 (c) Mention various registers used in 8085.

Answer Article 4.3.1-4.4 of Textbook

Q5 (a) Mention various types of interrupts in 8085. Give their respective priorities, trigger mode (edge or level) and interrupt type (vectored or non-vectored).

Answer Page Number 283 of Textbook

Q5 (b) Explain RIM and SIM instructions used in interrupt.

Answer Page Number 297-301 of Textbook

Q5 (c) Explain the control port of 8255.

Answer Page Number 328-330 of Textbook

Q6 (a) Explain the features of logic controller interface. Write a program for decimal counter using logic controller.

Answer Page Number 344 - 349 of Textbook

Q6 (b) compare the following:-

- (i) Interface keyboard using tri state buffer
- (ii) Interface a matrix keyboard

Answer Page Number 377 – 381 of Textbook

Q6 (c) Mention any two limitations of matrix key board.

Answer Page Number 381 of Textbook

Q7 (a) Explain the role of Initialization command words (ICW1 to ICW4) used in 8259.

Answer Article 23.5.1-23.5.5 of Textbook

Q7 (b) Give the format of control register and status register of 8257.

Answer Page Number 449, 451 of Textbook

Q7 (c) Explain any two data transfer types used in DMA.

Answer Page Number 456 – 457 of Textbook

Q8 (a) Explain Mode 0, Mode1, Mode 2 and Mode 3 of 8253 timer.

Answer Article 25.4 to 25.7 of Textbook

Q8 (b) Explain the MODE and COMMAND instructions of 8251.

Answer Article 26.1 - 26.7 of Textbook

Q8 (c) Compare synchronous and asynchronous transmissions in 8251.

Answer Page Number 498,486,478-486 of Textbook

Q9 (a) Explain the various bits of PSW register of 8051.

Answer Page Number 555 - 556 of Textbook

Q9 (b) Explain the following addressing modes of 8051(with examples)

- (i) Immediate
- (ii) Direct
- (iii) Indexed
- (iii) Implied

Answer Page Number 557 - 560 of Textbook

Q9 (c) Draw the block diagram of 8051.

Answer Page Number 549 of Textbook

Text Book

The 8085 Microprocessor; Architecture, Programming and Interfacing, K. Udaya Kumar and B. S. Umashankar, Pearson Education, 2008

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