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NEC-503

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P.T.O.

- 3 What are the 8086 intererupt types?
- (i) Explain the role of DT/R and DEN signals of 8086? (h) What is USART? (g) E Calculate the number of memory chips needed to design 0.64K byte memory if memory chip size available is E 2048×1?
- Section-B

asynchronous modes of transmission.

(j) ▶ Draw frame structures for syschronous and

- Attempt any five questions from this section. (10x5=50)

 2. nk(a) What do you mean by machine cycle, instruction

 trace

 cycle and T-states.

 What is the difference between Maximum and
- What is the difference between Maximum and
- Minimum mode of operation in 8086.
- Explain the advantages of dividing memory into memory generated? Explain with examples. segments. How is the 20 bit physical address for

- <u>.</u> Explain with an example the various types of addressing modes supported by 8086 microprocessors.
- Ş. (a) Write a 8086 assembly language program to convert binary to BCD.
- (b) Explain the following assembler directive:
- (i) EXTRN
- (ii) PUBLIC
- (iii) EVEN
- (iv) ORG

(v) DT

WAP using 8086 to interface seven segment display with

6.

- 7. using 8086. Assume 5 MHz Clock frequency. Write a program to generate a square wave of 500 µs
- 90 Explain the command words of 8259
- Draw and explain the functional block diagram of 8257

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www.FirstRanker.com (c) Compare RS232C and RS422A standards.

Differentiate between 8085 & 8086

9 (a) instructions.

Explain the difference between RAM and ROM.

Attempt any two questions from this section.

(15x2=30)

10a

(a) Explain the programming model of 8085.

(b) What are interrupts? What happens when interrupt is encountered? Classify the interrupt was 8085. What are interrupts? What happens when an

Section-C

Explain the concept of timer and delay in 8086. Explain various methods of genrating delay using suitable interrupt is encountered? Classify the interrupt of

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