	Paper ID: 2289460	(Following Paper ID	Printed Pages: 3
B.TECH	Roll No.	Following Paper ID and Roll No. to be filled in your Answer Books)	NEC -503

Regular Theory Examination (Odd Sem - V), 2016 - 17 MICROPROCESSOR

Time: 3 Hours

Max. Marks: 100

SECTION-A

Attempt all parts. All parts carry equal marks. Write

answer of each part in short questions. (10×2=20) Give the significance of SIM and RIM instructions

How does CPU identify between 8-bit and 16-bit operations? available in 8085?

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Why multiplexing is done in 8085 microprocessor? the maximum internal clock frequency? How clock signals are generated in 8086? What is

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8086? Microprocessor? How the 20 bit effective address is calculated in

c

State the significance of LOCK signal in 8086

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Give any four miscellaneous instructions in 16-bit

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- ತ How many modes are present in 8255 PPI?
- Differentiate between half duplex and full Duplex transmission.

SECTION-B

Note: Attempt any five Parts from this section (5×10=50)

- ভ Draw and explain the timing diagram of read cycle
- Sketch the Architecture of 8086 microprocessor?
- c available in 8085? List out the maskable and non-maskable interrupt
- ٩ convert an 8 bit binary number into equivalent ASCII Write a 8086 Assembly language program to
- c Explain the following assembler directives.
- i) ASSUME
- ₹ DW

iii) DD

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Illustrate the concept of segmented memory? What

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are its advantages?

Name the output modes used in 8279 9 (DMA) and the functions of various elements of Describe the process of the Direct Memory Access

Cite the concept of interrupt and polling

SECTION-C

Note: Attempt any two Questions from this section. (2×15=30)

- With neat block diagram explain the architecture of 8085?
- Describe the maximum mode signals, bus cycle and maximum mode system configuration of 8086.
- Draw the stepper motor interfacing with 8086 and compute the addition of 16 bytes stored in memory. Write a program based on 8086 instruction set to

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Explain the block diagram of the 8279 Key board Display interface and its operations.

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explain its operations.

controller and explain its operation. Draw the block diagram of programmable interrupt

