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	<u>(a)</u>	<u>©</u>	. 3	(a)	Atte	: All	le:3	M M	(SE		er ID	llow	ted F
•	Specify the type of a following instructions-	Define instruction cycle, maci in microprocessor operation	Specify the memory addressing comicroprocessor. How many address 2MB memory.	What is microprocessor? G & clock frequency of 8085	1. Attempt all parts . All parts carry en answer of each part in short.	questions are con	oursj SE(ROPROCESSO	M. V) THEORY		: 121504	ing Paper ID an	Printed Pages:4
Ξ	e of add	n cycle, m or operati	ory addre How m	ocessor?	parts carr part in sho	npulsory.	A-NOITC	R&ITS.	EXAMIN	B.Tech.	Roll No.	ınd Roll No. to Answer Book)	665
P.T.O.	Specify the type of addressing mode used in following instructions-	Define instruction cycle, machine cycle and T-state in microprocessor operation.	Specify the memory addressing capacity of 8085 microprocessor. How many address lines are required to address 2MB memory.	What is microprocessor? Give the power supply & clock frequency of 8085.	Attempt all parts . All parts carry equal marks. Write answer of each part in short . (2x10=20)		[lotal Marks:100]	7	(SEM. V) THEORY EXAMINATION, 2015-16			Bollowing Paper ID and Roll No. to be filled in your Answer Book)	NEE-504

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(g)? How does the microprocessor differentiate between data and instruction? between data and instruction?

Compare RET and POP instructions in

if microprocessor.

(i) W Explain the need of memory segmentation in 8086.

Calculate the execution time for the following code

MVIB,37H using 8085 operated at 3 MHz clock frequency

SECTION-B

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

Draw the flow chart and write assembly language program Store the result of addition and carry from memory for the addition of two 16-bit numbers considering carry. The numbers are stored in memory starting from 2000H.

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List advantages of memory-mapped I/O mapped

IN AX, DX MOVAX,[2050 H]

I/O technique of data transfer in microprocessor.

(f) Explain the execution of following instruction in

8086-

SBB BX, CX PUSH S

- internal architecture of 8085. State the function of each With the neat pin and block diagram and describe the
- Draw and explain the timing diagram of memory read operation in 8085. Write different step used in it.
- Write an assembly language program to generate a delay Assume that the crystal frequency if 8085 is 6 MHz. of Imsec. Also show the calculation of time delay

5.

suitable example of each. of 8255. With a neat diagram discuss internal architecture

7.

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6.

Describe the various addressing modes of 8086 with

Write a program to initialize 8255 as follows-Port C_L: Output port Port B: Simple output port PortA: Simple input port

Assume the address of control register is 03H. Poer C_u: Input port

P.T.O.

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ਭ diagram explain the working of 8237/8257.

Give a block diagram and describe the use of

interrupts of 8085 and give their vector address. the interrupts used in 8085. List out all the vectored Explain the role of interrupts in programming. Explain

shown. Explain the use of instruction queue. architecture of 8086. State the function of each block With the neat block diagram describe the internal

SECTION-C

Attempt any two questions from this section. (15x2=30)

What do you understand by DMA? With the help of block

(a) What is 8237/8254 programmable interval timer, draw and explain its internal architecture.

Explain how 8253/8254 can be used as a square wave generator.

algorithm used for temperature control. electric oven. With the help of flow chart explain the microprocessor to control the temperature of an

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