

# Mid Term Question Paper

IE 501; Microprocessor & Microcontrollers; Total Marks: 25

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### Multiple Choice Questions [15-marks]

- a) Q1 to Q12 has only one correct answer;
- b) Q13 to Q15 have more than one correct answers;
- c) There is no negative marking.

Q1: Which of the following is not a data transfer instruction? \*

1 point

- ☐ MOV A,M
- ☐ LDA 2600H
- ☐ RAL
- ☐ SPHL
- ☒ Other: DAS

Q2: In the instruction DCR & INR, which of the following flag bit is not affected? \*

1 point

- ☐ Zero
- ☐ Sign
- ☐ Parity
- ☒ Carry



Q3: 8085 enters into a wait state after the recognition of \*

1 point

- ☐ HOLD
- ☐ READY
- ☐ RESET
- ☒ INTR

Q4: Which of the following is not an example of 8085 instruction category? \* 1 point

- ☐ Data transfer
- ☐ Arithmetic and Logic
- ☐ Branching
- ☒ Cache memory transfer

Q5: In memory mapped I/O, which of the following instructions will not be there? \* 1 point

- ☒ LDA
- ☐ STA
- ☐ ADD M
- ☐ IN



Q6: Which one of the following instructions may be used for clearing accumulator content? \*

1 point

- ☐ XRA A
- ☒ SUB A
- ☐ MVI A,00H
- ☐ All of these

Q7: Which of the following instruction requires the highest number of T-states for execution? \*

1 point

- ☒ XTHL
- ☐ CALL
- ☐ STAX D
- ☐ DAD H

Q8: Which of the following is not a type of computer language? \*

1 point

- ☒ Medium level language
- ☐ High level language
- ☐ Low level language
- ☐ All of these



Q9: The only language which can be understood by the computer is \*

1 point

- ☒ Machine language
- ☐ High level language
- ☐ Assembly language
- ☐ None of these

Q10: (FE35 H) XOR (CB15 H) is equal to \*

1 point

- ☐ 3320 H
- ☐ FF35 H
- ☐ FF50 H
- ☒ 3520 H

Q11: The output of a logic gate is "1" when all of its input is at logic "0". Then the gate is either \*

1 point

- ☐ A NAND or an EX-OR gate
- ☒ A NOR or an EX-NOR gate
- ☐ An OR or an EX-NOR gate
- ☐ An AND or an EX-OR gate



Q12: For how many T-states ALE will be high during a machine cycle? \*

1 point

- ☐ 1 T-state
- ☐ 2 T-state
- ☒ 3 T-state
- ☐ 4 T-state

Q13: Which of the following instruction's opcode fetch consists of 6-T states? \*

1 point

- ☐ STA
- ☒ CALL
- ☒ PUSH
- ☐ LDA

Q14: Which of the following instruction's size is 2-byte? \*

1 point

- ☐ ANI
- ☐ ADI
- ☐ ADD M
- ☐ ADD C



Q15: In memory mapped I/O, the instruction(s) used to transfer the data of accumulator is/are: \*

- ☐ IN instruction
- ☒ STA instruction
- ☒ LDA instruction
- ☐ All of these

### Short type questions [10-marks]

Write the answers in paper and attach the scan copy in pdf or image format

Q16: State the need to demultiplex the bus AD0-AD7. How is demultiplexing done?

2 points

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Q17: The memory address of the last location of an 16kB memory chip is FFFF H. Find the starting address.

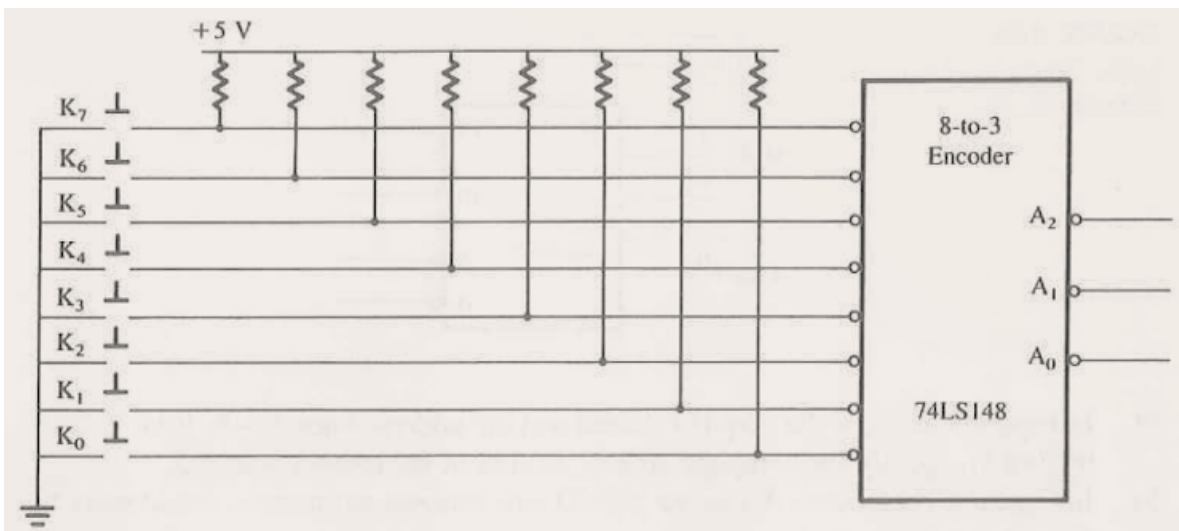
2 points

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Q18: What is the output of the encoder if the key K3 is pushed?

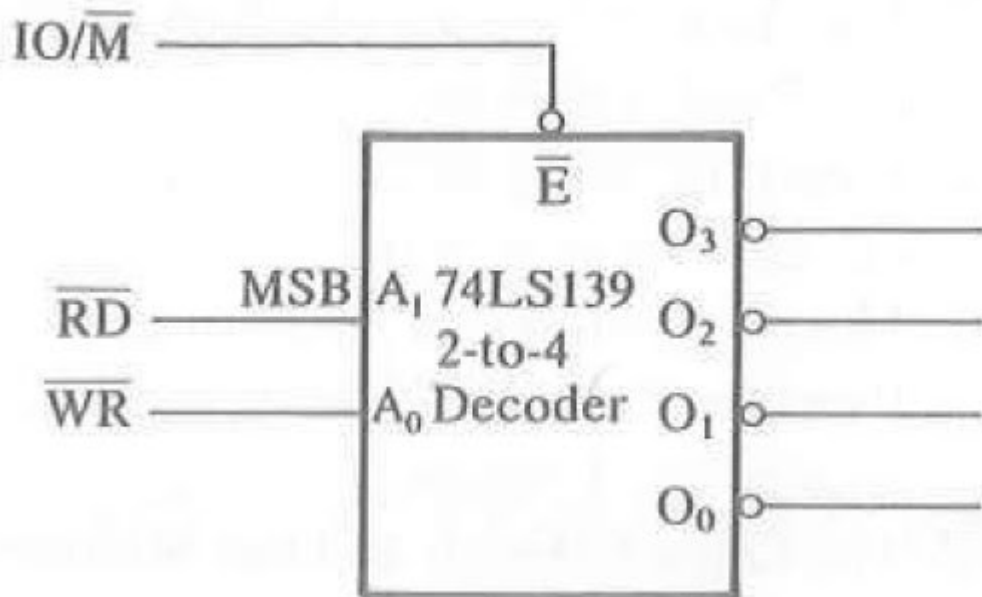
2 points



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Q19: Identify the appropriate control signals that are generated at the output of the 2 to 4 decoder.

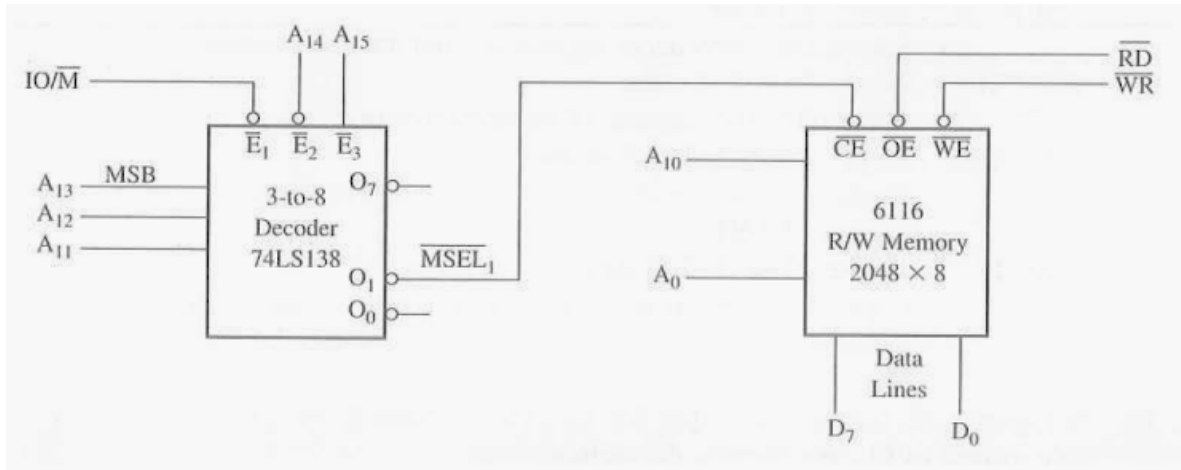
2 points



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Q20: In the following figure, exchange the address lines A12 and A14, and identify the memory map. 2 points



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