

0172841



K19U 2509

Reg. No. :

Name :

III Semester BCA Degree (CBCSS-Reg./Sup./Imp.)
Examination, November - 2019
(2014 Admn. Onwards)
CORE COURSE
3B07 BCA:INTRODUCTION TO MICROPROCESSORS

Time : 3 Hours

Max. Marks : 40

Section-A

1. One Word Answer (8×0.5=4)
- a) The number of address lines of 8085 is _____.
 - b) A 20-bit address bus can locate _____ locations.
 - c) NMI stands for _____.
 - d) The contents of accumulator before CMA instruction are A5H. Its content after instruction execution is _____.
 - e) AAM instruction is used for _____.
 - f) Status register is also called as _____.
 - g) In cascaded mode, the number of vectored interrupts provided by 8259A is _____.
 - h) All the functions of the ports of 8255 are achieved by programming the bits of an internal register called _____.

Section-B

Write short notes on any **Seven** of the following questions. (7×2=14)

- 2. What type of architecture is used in 8085.
- 3. What is the difference between primary and secondary storage device?
- 4. Explain how pipelined architecture is implemented in 8086.
- 5. Explain the instructions related to interrupt subroutines.
- 6. What is queue. How queue is implemented in 8086.

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7. What is SIM and RIM instructions?
8. What is the difference between DW and DD directives?
9. What is the difference between respective shift and rotate instruction?
10. What are the features of mode 0 operation in 8255.
11. What is Cycle Stealing?

Section-C

Write short notes on any **Four** of the following questions. (4×3=12)

12. Explain the addressing modes of 8086.
13. Describe execution of a CALL instruction.
14. Explain four flag manipulation instructions in 8086.
15. Compare maskable and nonmaskable interrupts.
16. How does the DMA controller 8257 perform direct memory access?
17. What is handshaking port? Explain the working of this port.

Section-D

Write short notes on any **two** of the following questions. (2×5=10)

18. Draw and explain the architecture of 8086.
 19. Differentiate minimum mode and maximum mode of 8086 with diagram.
 20. Explain the interrupt response sequence of 8086.
 21. Explain Programmable Peripheral Interface with block diagram.
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