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4th Sem,

Subject : Micro processors & Peripheral Devices/
Mircro & App.

Time : 3 Hrs. **M.M. : 100**

SECTION-A

Note : Multiple choice questions. All questions are compulsory. (10x1=10)

Q.1 8085 has ____no. Of address lines. (CO-2)

a) 8 b) 16
c) 32 d) 64

Q.2 Accumulator is a ____ bit register. (CO-2)

a) 4 b) 8
c) 12 d) 16

Q.3 LDA 2000 is a ____ byte instruction. (CO-4)

a) 1 b) 2
c) 3 d) 4

Q.4 MOV B, A is example of which addressing mode? (CO-4)

a) Register b) Implied
c) Direct d) Indirect

Q.5 The 8085 has _____ pins. (CO-2)

a) 32 b) 36
c) 40 d) 44

Q.6 In how many modes,8253 can operate? (CO-8)

a) 4 b) 5
c) 6 d) 7

Q.7 8253 is a ____ pin I.C. (CO-8)

a) 20 b) 24
c) 28 d) 32

Q.8 Instruction JNC refers to jump if? (CO-4)

a) Carry flag is reset b) Carry flag is set
c) Zeroflag is set d) Parity flag is reset

Q.9 STACK pointer is a ____ bit register. (CO-4)

a) 4 b) 8
c) 12 d) 16

Q.10 8086 has ____ memory. (CO-9)

a) 64 Kb b) 128 KB
c) 1 MB d) 2 MB

SECTION-B

Note : Objective type questions. All questions are compulsory. (10x1=10)

Q.11 Expand PSW. (CO-4)

Q.12 Define Operand. (CO-3)

Q.13 What is function of DI? (CO-6)

Q.14 Contents are accumulator are 64H & Carry flag is reset. What will be its contents after execution of instruction "RAR". (CO-4)

Q.15 Write instructions related to subroutines. (CO-4)

Q.16 Define looping. (CO-4)

Q.17 What is full form of RIM? (CO-6)

Q.18 Write any two applications of 8253 (CO-8)

Q.19 Write any two arithmetic instructions. (CO-4)

Q.20 Define Handshaking. (CO-5)

SECTION-C

Note : Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

Q.21 Show how address bus is demultiplexed? (CO-2)

Q.22 What is importance of timing diagram? (CO-3)

Q.23 What are components of a flag register? (CO-2)

Q.24 Differentiate between instruction cycle & machine cycle. (CO-3)

Q.25 Classify instructions of 8085 in various groups, give examples for each group. (CO-4)

Q.26 Explain in brief about different interrupts of 8085. (CO-6)

Q.27 Differentiate between counting & indexing. (CO-3)

Q.28 Write assembly language program with comments to subtract two 8 bit numbers and store the data at 2000H. (CO-4)

Q.29 Explain in brief about following instructions(CO-4)

i) LHLD ii) JP

iii) PUSH iv) DAA v) CMP

Q.30 What are different operating modes of 8255?(CO-8)

Q.31 Explain minimum mode of 8086 (CO-9)

Q.32 Explain in brief about DDRESS DECODER(CO-5)

Q.33 Explain in brief about the DMA scheme of data transfer. (CO-7)

Q.34 Write about evolution of microprocessor. (CO-1)

Q.35 Explain in brief the main features of 8255? (CO-8)

SECTION-D

Note : Long Answer type question. Attempt any two questions out of three questions. (2x10=20)

Q.36 Explain in detail various addressing modes with examples. (CO-4)

Q.37 (a) What is the function of SIM & RIM Instructions? (5) (CO-6)

(b) Explain in brief the concept of memory mapping. (5) (CO-5)

Q.38 What are various registers of 8085, explain their functions. (CO-2)

Note : Course Outcome (CO) mentioned in the questions paper is for official purpose only.