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Terminal Examination (2025-26)
Standard - XII

Subject : Computer Science (Paper - II)

Marks : 50

Date : 13.10.2025

Time : 8.30 am to 11.00 am

Q.1 A] Select the correct alternative and rewrite the following. (4)

- 1) _____ instruction is used for 16-bit addition.
 - a) ADD
 - b) ADI
 - c) DAD
 - d) ADC
- 2) _____ bus is one way data from MPU to all devices.
 - a) Data
 - b) Address
 - c) control
 - d) None of above
- 3) _____ is a non-maskable interrupt.
 - a) TRAP
 - b) RST7.5
 - c) RST6.5
 - d) RST5.5
- 4) _____ instruction rotates the contents of ACC left through carry by 1 bit.
 - a) RLC
 - b) RRC
 - c) RAR
 - d) RAL

B] Answer the following. (Any two) (6)

- 1) Write a note on Evolution of Microprocessor giving one example of each generation.
- 2) Explain the Register and Direct addressing Modes of 8085 microprocessor with example of each.
- 3) Explain the following instruction.
 - a) ANI
 - b) SHLD

Q.2 A] Answer the following. (Any two) (6)

- 1) Write features of 8085 microprocessor.
- 2) Write the functions of following units of 8085 microprocessor
 - a) Stack pointer
 - b) Accumulator
- 3) Explain following instructions:
 - a) DAA
 - b) ADI

B] Answer the following. (Any one) (4)

- 1] Define following terms.
 - a) Instruction cycle
 - b) Machine cycle
 - c) T-statewith labelled diagram
- 2] Draw labelled Pin diagram of 8085 microprocessor. Explain each pin.

Q.3 A] Answer the following. (Any two) (6)

- 1) Draw labelled Internal Block diagram of 8085 microprocessor. Explain each block.
- 2) What is subroutine? Explain its Instructions.
- 3) Explain following Instruction:
 - a) LDAX D
 - b) INR A

B] Answer the following. (Any one) (4)

- 1) Explain conditional and unconditional branching instructions with suitable example.
- 2) Explain Register Indirect and immediate addressing modes of 8085 microprocessor.

Q.4 A] Answer the following. (Any two) (6)

- 1) Explain the term 'Interrupts'. Write different types of Interrupts.
- 2) How many flag register are present in 8085 microprocessor? State conditions when they are set to 1 generally.

3] Explain functions of a following pins of 8085 microprocessor.

- a) HLDA
- b) SID
- c) INTR

B] Answer the following. (Any one) (4)

- 1) What is microprocessor? Write the features/functions of 8085 microprocessor.
- 2) Explain conditional jump and unconditional jump instructions in brief.

Q.5 A] Answer the following. (Any two) (10)

- 1) Write an assembly language program to transfer a block of data stored from memory location 3000H to memory location 3009H to memory location 4000H to 4009H and length is stored in memory location 2005H.
- 2) Write an assembly language program to add a 8bit number stored in 3005H with number stored in 3006H. Store the result in memory location 300AH.
- 3) Write an assembly language program to perform multiplication of two 8-bit no's where multiplicand is stored in memory location 2501H and multiplier is stored in 2502H. Result should be stored in memory location 2503H.

OR

B] Answer the following. (Any two) (10)

- 1) A block of data is stored in memory location 4501H and onwards. The length of block is stored in mem location 4500H. Write an Assembly language program to find the sum of block of data. Store the result in memory location 4600H.
- 2) Write an Assembly language program to subtract the number stored in mem location 3601H from the number stored in memory location 3600H. Store the result in mem location 3602H.
- 3) Write an Assembly language program to divide a byte stored in memory location 3600H by a byte stored in a memory location 3601H. Store the result in memory location 3602H.



