



WEST BENGAL STATE UNIVERSITY
B.Sc. Honours 5th Semester Examination, 2021-22

CMSADSE01T-COMPUTER SCIENCE (DSE1/2)

MICROPROCESSOR

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
Candidates are required to give their answers in their own words as far as practicable.
All symbols are of usual significance.*

Answer Question No. 1 and any *four* from the rest

1. Answer any ***four*** questions from the following: 2×4 = 8
 - (a) What do you mean by instruction register?
 - (b) Give the bit configuration of 8085 flag register.
 - (c) What do you mean by delay subroutine?
 - (d) What is working principle of LHLD instruction?
 - (e) Why XCHG instructions are used?
 - (f) Differentiate: Instruction cycle and Machine cycle.

2. (a) Draw the timing diagram of OUT instruction. 4+4 = 8
(b) Write a program to enable RST 6.5 and disable RST 7.5 and 5.5.

3. (a) Write a program in assembly Language to Perform Addition of Two 16 bit numbers whose sum is 16 bits or more. 4+4 = 8
(b) Discuss the functions of following instructions of 8085:
RAR, DAD, CALL D050H, DCX B

4. (a) Draw and discuss the Timing diagram of interfacing 2732 EPROM with 8085 microprocessor. 5+2+1 = 8
(b) What is multiplexing in 8085 Microprocessor?
(c) What do you mean by Absolute Decoding?

5. (a) Explain the working procedure of DCR and DAD with examples. 4+4 = 8
(b) The content of accumulator is 8AH, and that of register B is A7H. Write a 8085 program to add the contents of the registers and comment on the result.

6. (a) Differentiate: memory mapped I/O and I/O mapped I/O. 4+4 = 8
(b) How address bus and data bus are separated in 8085 microprocessor?
7. Write short notes on any *two*: 4×2 = 8
(a) NOP instruction and its utility
(b) Cache memory organisation
(c) EPROM vs. PROM.

N.B. : *Students have to complete submission of their Answer Scripts through E-mail / Whatsapp to their own respective colleges on the same day / date of examination within 1 hour after end of exam. University / College authorities will not be held responsible for wrong submission (at in proper address). Students are strongly advised not to submit multiple copies of the same answer script.*

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