

## U.G. 4th Semester Examinations 2022

### COMPUTER SCIENCE (General)

Paper Code : SEC-2

(Microprocessor 8085)

[CBCS]

Full Marks : 40

Time : Two Hours

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

#### Group - A

1. Answer any *five* questions : 2×5=10
- (a) What is an accumulator?
  - (b) Define Microprocessor.
  - (c) What do you understand by ' STA 3000H' in 8085?
  - (d) Define T-state.
  - (e) Write a program in 8085 that adds two numbers.
  - (f) What is the functionality of ALE?

#### Group - B

Answer any *three* questions. 5×3=15

2. (a) State the functionality of flag registers in 8085.
- (b) Define Machine Cycle.
- (c) Describe different data transfer instructions with example. 4+1+5
3. (a) What do you mean by Stack Pointer?
- (b) Briefly explain the following instructions with example :

ANA, XRI, ORA and ADI

- (c) Find the value of Accumulator after executing the following code snippet :

MVI A, 05H

ADI 06H

2+4+4=10

[P.T.O.]

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4. (a) Explain the addressing mode available in 8085 microprocessor with example.
- (b) Discuss about instruction formats of 8085 microprocessor. 5+5
5. Write a short note on the following (any *two*): 2×5
- (i) Stack
  - (ii) Memory Interfacing
  - (iii) Branch Instructions
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