

## Fifth Semester B.C.A. Degree Examination, March/April 2022

(CBCS Scheme)

## COMPUTER SCIENCE

## Microprocessor and Assembly Language

Time : 3 Hours

Max. Marks : 70

**Instruction :** Answer **all** Sections.

## SECTION – A

I. Answer **any ten** questions. **Each** question carries **two** marks : (10×2=20)

- 1) What is the use of bidirectional and unidirectional pins of 8085 ?
- 2) Define program counter and stack pointer.
- 3) Draw the flowchart to repeat the same task in specified time with delay.
- 4) Why do we use XRA A instruction ?
- 5) What is machine cycle ?
- 6) Define subroutine.
- 7) How many bytes required to store the following instruction ?
  - a) LXI, 2500
  - b) ADD B.
- 8) What are handshake signals ?
- 9) Write the vectored address of
  - i) TRAP
  - ii) RST 5.5.
- 10) Difference between absolute and partial decoding.
- 11) What are the basic modes of operations of 8255 ?
- 12) Identify the following IC's compatible with 8085 microprocessor
  - a) 8255
  - b) 8259
  - c) 8257
  - d) 8251.

