

65525

V Semester B.C.A. Degree Examination, April/May 2023
(CBCS) (Freshers + Repeaters)

COMPUTER SCIENCE

BCA 505T : 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) Define Microprocessor. Give any two examples.
- 2) What is an instruction format ?
- 3) Define Program Counter and Stack Pointer.
- 4) What is DAA and LDA instruction ?
- 5) What is Machine Cycle ?
- 6) What is Subroutine ?
- 7) What are counters and time delays ?
- 8) Define Indexing.
- 9) What is handshake signals ?
- 10) What is I/O interfacing ?
- 11) What is asynchronous data transfer ?
- 12) What is interrupt ?



P.T.O.



SECTION – B

- II. Answer **any five** questions. **Each** question carries **ten** marks. (5×10=50)
- 13) Explain the functional block diagram of 8085 microprocessor. 10
- 14) Explain in detail the various addressing modes. 10
- 15) a) Write an assembly program to multiply two-digit BCD. 5
 b) Write a program to add two 16-bit number. 5
- 16) a) What is a stack ? Explain PUSH and POP operation. 5
 b) Explain unconditional Jump Instructions. 5
- 17) a) Explain nesting of subroutine with an example. 5
 b) Explain CALL and RET instruction. 5
- 18) a) Explain SIM and RIM instruction. 5
 b) Differentiate between peripheral mapped I/O and memory mapped I/O. 5
- 19) a) Explain the functional block diagram of 8255 PPI. 5
 b) Explain the Interfacing Devices. 5
- 20) Write a short note on:
 a) DMA 5
 b) Data transfer instructions in 8085 5

