



65523

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

(CBCS)

COMPUTER SCIENCE
Computer Architecture

Time : 3 Hours

Max. Marks : 100

Instruction : Answer **all** questions.

SECTION – A

I. Answer **any ten** questions.

(10×2=20)

- 1) Write the symbol, truth table and logical expression for NAND gate.
- 2) What is parity bit ?
- 3) Define min term and max term with an example.
- 4) What is bidirectional register ?
- 5) Define interrupt.
- 6) What is BUN instruction ?
- 7) What is PSW ?
- 8) Find the 10's complement of 1267.
- 9) Distinguish between FGI and FGO.
- 10) Mention the types of ROM.
- 11) What is polling ?
- 12) Define virtual memory.



SECTION – B

II. Answer **any five** of the following questions.

(5×5=25)

- 13) Explain octal to binary encoder with a neat diagram.
- 14) Design 4 × 1 line multiplexer.
- 15) Explain any five register reference instructions.
- 16) Explain the different addressing modes with example.
- 17) Explain the interrupt cycle of computer.
- 18) Write a short note on virtual memory.
- 19) Difference between memory mapped I/O and isolated I/O.
- 20) Distinguish between RAM and ROM.

P.T.O.