

Roll No.

Total Printed Pages - 3

F - 3697

B. Sc. (Part - II) Examination, 2022

(Old/New Course)

COMPUTER SCIENCE

Paper First

(Computer Hardware)

Time : Three Hours]

[Maximum Marks:50

Note: Attempt any two parts from each unit. All questions carry equal marks.

Unit - I

1. (a) What is computer network? Explain parallel processing in brief.
- (b) Explain memory addressing capability of CPU.
- (c) Write notes on:

P.T.O.

[2]

(i) Single chip microcomputer

(ii) Multiprogramming system

Unit - II

2. (a) Describe execution cycle, fetch cycle and instruction cycle in detail.
- (b) Explain various addressing modes in 8085.
- (c) Write notes on :
 - (i) CPU organization
 - (ii) Interrupts

Unit - III

3. (a) Describe in detail semiconductor memory.
- (b) What is MMU? How does it work?
- (c) Explain the working of real and virtual memory.

Unit - IV

4. (a) Describe serial data I/O and its methods.
- (b) Explain with diagram printers and plotter.
- (c) Discuss in detail microcontroller.

F - 3697

[3]

Unit - V

5. (a) Define and explain multiprogramming, multi-processing and multitasking operating system.
- (b) Write notes on :
 - (i) Program design
 - (ii) Application package
- (c) Explain ML, AL, and HLL. Write advantages and disadvantages of all.