

Roll No.

E-3577

B. Sc. (Part I) EXAMINATION, 2021

(New Course)

COMPUTER SCIENCE

Paper First

(Computer Fundamental)

Time : Three Hours]

[Maximum Marks : 50

Note : Attempt any *two* Parts from each questions. All questions carry equal marks.

Unit—I

1. (a) Explain major components of digital computer.
- (b) Write short notes on the following :
 - (i) Dumb smart and intelligent terminal
 - (ii) Single chip microcomputer
- (c) Explain Flynn's classification of computer.

Unit—II

2. (a) Explain architecture of Intel 8085 microprocessor.
- (b) Explain various addressing modes.
- (c) Explain instruction cycle in detail.

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Unit—III

3. (a) Explain memory management unit in detail.
- (b) Write short notes on the following :
 - (i) Cache memory
 - (ii) Virtual memory
- (c) Explain direct access storage devices.

Unit—IV

4. (a) Explain vector scan display method and raster scan display.
- (b) Write short notes on the following :
 - (i) Signal processor
 - (ii) Arithmetic processors
- (c) Explain programmable and non-programmable I/O part.

Unit—V

5. (a) Define machine language and high level language.
- (b) Write short notes on the following :
 - (i) Program design
 - (ii) Utility program
- (c) Explain Debugging of program.