

Roll No.

E-3781**B. Sc. (Part III) EXAMINATION, 2021**

COMPUTER SCIENCE

Paper First

(Computer Hardware—Part C)

Time : Three Hours]

[Maximum Marks : 50

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

Unit—I

1. (a) Compare and contrast between I/O mapped I/O and memory mapped I/O.
- (b) Draw the schematic block diagram of microcomputer showing its essential components and explain each function.
- (c) Draw and explain Hardware controlled I/O or DMA I/O technique.

Unit—II

2. (a) Explain different kinds of disk controller used in computer.

- (b) What is CGA ? Explain various modes of CGA.
- (c) Describe various types of PC-bus slots and feature cards.

Unit—III

3. (a) Explain basic structure of Disk operating system. Also explain in detail ROM bootstrap.
- (b) Describe ROM-BIOS Diskette service INT13-H in brief.
- (c) Discuss file structure of DOS.

Unit—IV

4. (a) Differentiate between root directory and sub-directory.
- (b) Describe how to load, call, return and execute EXEC function.
- (c) What do you mean by Parameter block ?

Unit—V

5. (a) Define redirection of I/O under DOS.
- (b) Explain the following :
 - (i) Filters in operating system
 - (ii) Clock and Break interrupts
- (c) Write a detailed note on networking features of Windows OS.

E-3781**P. T. O.**