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.

P. T. O.

(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 boostrap.

(b) Describe ROM-BIOS Diskette service INTI3-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.

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