

Roll No.

[2]

D-3711

B. Sc. (Part III) EXAMINATION, 2020

COMPUTER SCIENCE

Paper First

(Computer Hardware—Part C)

Time : Three Hours]

[Maximum Marks : 50

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

Unit—I

1. (a) Explain Memory Addressing Mode.
- (b) Discuss Memory mapped I/O.
- (c) Write short notes on any *two* of the following :
 - (i) Flag register
 - (ii) RAM
 - (iii) Program Counter
 - (iv) DMA

Unit—II

2. (a) Explain interrupt vectoring.
- (b) Explain Hard disk controller.
- (c) Write short notes on any *two* of the following :
 - (i) ROM-BIOS

- (ii) System Timer
- (iii) Graphic Adapter
- (iv) Expansion slot for RAM

Unit—III

3. (a) Explain the structure of UNIX.
- (b) Write Booting Process of DOS.
- (c) Write short notes on any *two* of the following :
 - (i) File structure of DOS
 - (ii) INT 20H-2 FH
 - (iii) INT 17H
 - (iv) Character devices

Unit—IV

4. (a) Explain logical structure of DOS.
- (b) Explain File Access and FCB functions.
- (c) Write short notes on any *two* of the following :
 - (i) EXEC Loader
 - (ii) Volume labels
 - (iii) Subdirectories
 - (iv) Program overlays

Unit—V

5. (a) Write networking features of Windows.
- (b) Explain the types of interrupts.
- (c) Write short notes on any *two* of the following :
 - (i) Clock interrupt
 - (ii) Troubleshooting in Windows
 - (iii) Break interrupt
 - (iv) Interrupt Service Routine

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