

Roll No.

003B15

Y-2177

B. Sc. (Part II) EXAMINATION, 2015

COMPUTER SCIENCE

Paper First

(Computer Hardware)

Time : Three Hours]

[Maximum Marks : 50

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

Unit—I

1. (a) What are the memory addressing capability of CPU and word length and processing speed of computers ?
- (b) Define the multiprogramming and multiuser system.
- (c) What do you mean by parallel processing system ? Describe the Flynn's classification of parallel computers.

Unit—II

2. (a) Draw and explain the structure of CPU Organization.

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- (b) How many types of addressing mode interrupts and exceptions ?
- (c) Write down the instruction for INTEL 8085.

Unit—III

- 3. (a) Explain the structure and working process of hard disk drive.
- (b) Compare between cache memory and virtual memory.
- (c) Explain the following terms :
 - (i) DASD
 - (ii) MMU

Unit—IV

- 4. (a) Describe the any *four-four* input/output devices.
- (b) What are the I/O processor arithmetic processor.
- (c) Write down the following terms :
 - (i) Microcontroller
 - (ii) Signal processor
 - (iii) I/O processor

Unit—V

- 5. (a) What is software and how many types of software are there ?
- (b) What is operating system and describe the function of operating system ?
- (c) What is utility software ? Explain with an appropriate example.

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