

G-39-20

Roll No.....

Annual Examination, 2020

B.Sc. Part II

COMPUTER SCIENCE

Paper I

(Computer Hardware)

Time : 3 Hours]

[MAXIMUM MARKS : 50

Note : Section 'A' is Objective type and is compulsory. It should be written on the **first page** of Answer-book. Section 'B' is Short answer type and Section 'C' is Long answer type.

SECTION 'A'

(Multiple Choice Questions)

Choose the correct answer : **1×10=10**

- (i) MIMD stands for :
- (a) Multiple instruction multiple data
 - (b) Multiple instruction memory data
 - (c) Memory instruction multiple data
 - (d) Multiple information memory data
- (ii) This type of computer is mostly used for automatic operations :

P.T.O.

- (a) Remote (b) Hybrid
(c) Analog (d) Digital.
- (iii) CUP consists of the following parts :
- (a) CU and main memory
(b) CU and ALU
(c) Main memory and storage
(d) Operating system and application.
- (iv) Which of the following is not a special function register ?
- (a) Program counter
(b) Instruction pointer
(c) Accumulator (d) Stack pointer.
- (v) All of the following are non-volatile memory except :
- (a) ROM (b) PROM
(c) Flash memory (d) RAM.
- (vi) The faster, costlier and relatively small form of storage managed by computer system hardware is :
- (a) Main Memory (b) Flash Memory
(c) Cache Memory (d) Disk.

(vii) A printer that prints one line at a time and has a predefined set of characters is called :

- (a) Laser
- (b) Drum
- (c) Inkjet
- (d) Impact.

(viii) Process that periodically checks the status of an I/O devices, is known as :

- (a) Cold swapping
- (b) I/O instructions
- (c) Polling
- (d) Dealing.

(ix) Which of the following is designed to control the operations of computer ?

- (a) Application Software
- (b) System Software
- (c) Utility Software
- (d) User.

(x) The software designed to perform a specific task :

- (a) Synchronous software
- (b) Package software
- (c) Application software
- (d) System software.

SECTION 'B'

(Short Answer Type Questions) 3×5=15

Note : Attempt **five** questions from this section by selecting one question from each question.

1. What is word length ?

Or

What is firmware ?

2. What is data flow ?

Or

What is control unit registers ?

3. What is backup memory ?

Or

What is MMU ?

4. What is plotter ?

Or

What is micro controller ?

5. What is micro programming ?

Or

What is utility program ?

SECTION 'C'

(Long Answer Type Questions) 5×5=25

Note : Attempt **five** questions from this section by selecting one question from each question.

1. What do you mean by Flinn's classification ?
Explain it.

Or

What is difference between multiprogramming and multiuser system ? Explain it.

2. What do you understand by addressing mode ?
Explain the various type of addressing mode.

Or,

Explain the following term :

- (i) Instruction cycle
 - (ii) Fetch and execute operation.
3. What is difference between Main memory and Secondary memory ? Explain it.

Or

Explain the following term :

- (i) Virtual Memory,
- (ii) Memory Controller.

4. What is printer ? Explain the different types of printer.

Or

Explain the following :

(i) I/O processor,

(ii) I/O port serial data transfer scheme.

5. What is difference between program ? Design and Software development ? Explain the Software development terms.

Or

Explain the following term :

(i) Application package,

(ii) High level languages.

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