

G-10-20

Roll No.....

Annual Examination, 2020

B.Sc. Part I

COMPUTER SCIENCE

Paper I

(Computer Fundamentals)

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) The memory which is ultraviolet light erasable and electrically programmable is :
- (a) ROM (b) PROM
- (c) RAM (d) EPROM.
- (ii) DOT-matrix is a type of :
- (a) Tape (b) Printer
- (c) Disk (d) BUS.

P.T.O.

(iii) Which of the following is not a part of the CPU ?

- (a) Storage unit
- (b) Arithmetic and Logic unit
- (c) Program unit
- (d) Control unit.

(iv) Which of the following chips can be reprogrammed with special electric pulses ?

- (a) EPROM
- (b) PROM
- (c) ROM
- (d) EEPROM.

(v) A collection of eight bits is called :

- (a) Byte
- (b) Word
- (c) Record
- (d) File.

(vi) A half byte is known as :

- (a) Data
- (b) Bit
- (c) Half Byte
- (d) Nibble.

(vii) Who is called the "Grand father" of the computer ?

- (a) Blaise Pascal
- (b) Charles Babbage
- (c) Joseph Jacquard
- (d) Dr. Herman.

(viii) A step-by-step procedure used to solve a problem is called :

- (a) Operating system (b) Algorithm
(c) Application program
(d) All of the above.
- (ix) First generation computers are characterised by :
- (a) Vacuum tubes and Magnetic drum
(b) Mini computers
(c) Magnetic type and transistors
(d) All of the above.
- (x) The heart of any computer is the :
- (a) CPU (b) Memory
(c) I/O unit (d) Disks.

SECTION 'B'

(Short Answer Type Questions) 3×5=15

Note : Attempt **five** questions from this section by selecting one question from each question. Answer within 100 words.

1. What is LAN Parallel Processing ?

Or

Explain large and small computers.

2. Explain ALU control unit.

Or

What do you mean by Timing Diagram ?

3. What is Memory ?

Or

Explain Direct Access Storage Devices (DASD).

4. Write scan method of Display ?

Or

What do you understand by Scanner ?

5. Explain operating system.

Or

What is High Level Language ?

SECTION 'C'

(Long Answer Type Questions) 5×5=25

Note : Attempt **five** questions from this section by selecting one question from each question. Answer within 300 words.

1. Explain in detail major components of digital computers.

Or

Explain generation of computer in detail.

2. Explain instruction for Intel 8085 micro-processor.

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Or

Write various Addressing mode.

3. Explain Cache Memory and Virtual Memory in detail.

Or

Write memory management unit (MMU) in detail.

4. What do you understand by Printer ? Also explain its types in detail.

Or

Explain Programmable and Non-programmable I/O port device in detail.

5. Explain the following :

- (a) Software (b) Stack Subroutine
(c) Multiuser (d) Multitasking Protection
(e) Debugging.

Or

Explain Machine Language in detail.

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