

- Part-B (Unit-I)** 10 each
2. Explain Fourth generation of computers in detail.
3. Draw the block diagram of computer and explain the working of its each unit.

- Part-C (Unit-II)** 10 each
4. Discuss the organization of main memory and its types in detail.
5. Explain the working of optical storage devices and solid state storage devices in detail.

- Part-D (Unit-III)** 10 each
6. List out any five input devices and discuss the working of any three of them.
7. Discuss different types of printing devices and explain their working.

- Part-E (Unit-IV)** 10 each
8. Discuss Compiler, Assembler and Interpreter in detail. Also, explain why they are required ?
9. Write short notes on the following :
- (i) High level language
 - (ii) Assembly language
 - (iii) Machine language
 - (iv) Spreadsheet software
- 2½×4=10

C-586

(4)

Roll No.620110ED15.....

Total No. of Questions : 9]
(2021)

[Total No. of Printed Pages : 4

**BCA (CBCS) RUSA Ist Semester
Examination**

4039

COMPUTER FUNDAMENTALS

BCA-0103

Time : 3 Hours]

[Maximum Marks : 70

Note :- Attempt five questions in all, selecting one question each from Unit-I to Unit-IV. Part-A (Q. No. 1) is compulsory.

Part-A

(Compulsory Question)

1. (A) Attempt all parts. Answer the following MCQ's by selecting most appropriate option :
- (i) One Nibble is equal to how many bits ?
 - (a) 2
 - (b) 4
 - (c) 8
 - (d) 1

C-586

(1)

Turn Over

(ii) Components that provide internal storage to CPU are :

- (a) Registers
- (b) Program Counters
- (c) Controllers
- (d) Internal Chips

(iii) A non-erasable disk that stores digitized audio information is :

- (a) CD
- (b) CD-ROM
- (c) DVD-R
- (d) DVD-RW

(iv) The functions of execution and sequencing are performed by using :

- (a) Input Signals
- (b) Output Signals
- (c) Control Signals
- (d) CPU

(v) Multiprogramming is mainly accomplished by :

- (a) Operating System
- (b) Software
- (c) Hardware
- (d) Program

Fill in the blank spaces :

(vi) unit act as the central nervous system of the computer.

(vii) allows single processor to run several concurrent threads.

(viii) MICR stands for

State whether the statement is True or False :

(ix) Micro-program consists of a set of microinstructions which are strings of 0's and 1's. (True/False)

(x) ALU is the place where the actual executions of instructions take place during the processing operation. (True/False)

(B) Answer the following in 25 to 50 words : $1 \times 10 = 10$

(i) Differentiate between Micro and Mini Computer.

(ii) What is Cache Memory ?

(iii) Discuss point and draw devices in brief.

(iv) What is File Allocation Table (FAT) ?

(v) Write a short note on 4GL.

$4 \times 5 = 20$