

Roll No.

Total No. of Questions : 9]
(2102)

[Total No. of Printed Pages : 7

**BCA (CBCS) RUSA 1st Semester
Examination**

3987

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) The following questions carry 1 mark each :

(i) What is the term for a temporary storage area that compensates for differences in data rate and data flow between devices ?

- | | |
|-------------|-----------|
| (a) Buffer | (b) Bus |
| (c) Channel | (d) Modem |

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- (ii) Descending Order of a data Hierarchy is :
- (a) Database-File-Record-Fields-Bytes-Bit
 - (b) Database-File-Record-Fields-Bit-Bytes
 - (c) Database-Record-File-Fields-Bytes-Bit
 - (d) Database-Record-Fields-File-Bytes-Bit
- (iii) Which of the following parameters decided the performance of the memory ?
- (a) Latency
 - (b) Cycle time
 - (c) Transfer rate
 - (d) All of these
- (iv) The Second Generation Computer was based on
- (a) Vacuum Tube
 - (b) Silicon Chips
 - (c) Transistor
 - (d) Bio Chips

(v) Which of the following memories need refresh ?

- (a) SRAM
- (b) DRAM
- (c) ROM
- (d) All of these

(vi) Which is valid statement ?

- ☒ (a) 1 KB = 1024 Bytes
- (b) 1 MB = 1024 Bytes
- (c) 1 KB = 1000 Bytes
- (d) 1 MB = 1000 Bytes

(vii) has the shortest access times.

- ☒ (a) Cache Memory
- (b) Virtual Memory
- (c) Secondary Memory
- (d) All of these

(viii) Which of the following devices have a limitation that we can only store information to it but cannot erase or modify it ?

(a) Floppy Disk

(b) Hard Disk

☒ (c) Tape Drive

(d) CDROM

Which Disk Format can be accessed by MS-Dos 6.0 ?

(a) OSX

(b) FAT

(c) NTFS

(d) EXT2

(x) Which of the following softwares cannot be categorized application software ?

(a) DBMS

(b) MS-DOS

☒ (c) Spreadsheet

(d) Word Processing

1×10=10

(B) Write short notes on the following questions :

- (i) What are Supercomputers ?
- (ii) Differentiate between first and second generation computers.
- (iii) What are solid state storage devices ?
- (iv) Differentiate between application software and system software.
- (v) What are Pointing Devices ? Explain with the help of example. 4×5=20

Part-B (Unit-I)

10 each

Note :- Attempt any *one* question.

- 2. What are the basic components of a Computer System ? Explain with the help of Block Diagram of Computer.
- 3. Explain the different types of computers (micro, mini, mainframe and supercomputers).

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Part-C (Unit-II)

Note :- Attempt any *one* question.

4. Explain and differentiate RAM, ROM, PROM and EPROM. 10

5. Differentiate between online and offline storage of data. Name and explain a storage device suitable for each type of data storage. 5,5

Part-D (Unit-III)

Note :- Attempt any *one* question.

6. What are Peripheral Devices ? Why are they so called ? Name and explain *two* peripheral devices. 5,5

✓ Write short notes on the following :

(a) Mouse

(b) Trackball

(c) Joystick

(d) Electronic Pen 10

Part-E (Unit-IV)

10 each

Note :- Attempt any *one* question.

8. Write short notes on the following :

- (a) Hardware
- (b) Software
- (c) Firmware
- (d) Middleware

9. Write short notes on the following :

- (a) Assembler
- (b) Compiler
- (c) Interpreter