Total No. of Questions : 9]   [Total No. of Printed Pages : 4

(2111)

BCA (CBCS) RUSA Ist Semester Examination

4510

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)   A process is a ....

   (a)   Single thread of execution

   (b)   Program in the execution

   (c)   Program in the memory

   (d)   Task

(ii) What is smallest unit of the information ?

   (a). A bit   (b) A byte

   (c) A block   (d) A nibble

(iii) The extension of Notepad is ....

   (a) .txt   (b) .xls

   (c) .ppt   (d) .bmp

(iv) Speed of computer is measured in ....

   (a) Nanoseconds   (b) Kilo-seconds

   (c) Gigahertz   (d) Megabytes

(v) .... is also called auxiliary storage.

   (a) Secondary Memory

   (b) Tertiary Memory

   (c) Primary Memory

   (d) Cache Memory

Fill in the blank spaces :

(vi) Each personal computer has a .... that manages the computer's arithmetical, logical and control activities.

(vii) DDV stands for ....

(viii) .... is the fastest means of memory access for CPU.

State whether the statement is True or False :

(ix) Secondary storage virtually has an unlimited capacity because the cost per bit is very low.   (True/False)

(x) Magnetic tape is a type of direct access device.   (True/False)
                                                  1×10=10

(B) Answer the following in 25 to 50 words :

(i) What do you mean by Mainframe Computers ?

(ii) Write a short note on Instruction Set.

(iii) Differentiate between RISC and CISC Processors

(iv) What is Digitizer ? What are its advantages ?

(v) What is FAT32 ?   4×5=20

Part–B (Unit–I)

2. Explain the characteristics of Computers. Also discuss the capabilities and limitations of computers.   10 each

3. Discuss the block diagram of computer and explain the working of its each unit.

Part–C (Unit–II)

4. Discuss the different types of memory available in a computer system.　10

5. (a) Distinguish between Static RAM and Dynamic RAM.

   (b) What do you mean by Flash Memory ? What are its advantages ?　5,5

Part–D (Unit–III)

6. Explain various point and draw devices in detail.　10

7. Differentiate between :

   (i) OCR and OMR

   (ii) Soft Copy Output and Hard Copy Output

   (iii) Trackball and Mouse

   (iv) Inkjet and Laser Printers　2½×4=10

Part–E (Unit–IV)

8. (a) What is an Operating System ? Why is it necessary for a computer system ?

   (b) What is Utility Program ? Explain.　5,5

9. (a) Differentiate between Linux and Windows.

   (b) What are 4GL ? Discuss their merits and demerits.　5,5

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