## B.C.A. UG (CBCS) RUSA Ist Semester Examination

# 3838

## COMPUTER FUNDAMENTALS
## BCA-0103

Time : 3 Hours]     [Maximum Marks : $\begin{cases} \text{Regular} = 70 \\ \text{ICDEOL} = 100 \end{cases}$

*Note* :– Attempt *five* questions in all, selecting *one* question from each Unit. Question No. 9 is compulsory.

### Unit–A

1. (a) Draw a block diagram to illustrate basic organization of a computer system.

   (b) Explain any *four* characteristics of computers. 7(10)

2. (a) Differentiate between RISC and CISC processors.

   (b) "Fourth generation of computers is better than third generation." Justify this statement. 7(10)

## Unit–B

3. (a) How data is organized on a DVD ? Explain with the help of a diagram.

   (b) Describe fixed and variable length memory.    7(10)

4. (a) Explain advantages and limitations of magnetic tape.

   (b) Differentiate among ROM, PROM and EPROM. 7(10)

## Unit–C

5. (a) Describe common mouse actions.

   (b) Differentiate between a mechanical and optical mouse.    7(10)

6. (a) Discuss the working of DOT-MATRIX printers.

   (b) Discuss the working of LCD and CRT.    7(10)

## Unit–D

7. (a) Explain with the help of a diagram the relationship among hardware, system software, application software and user of a computer system.

   (b) What are various types of programming languages ? Explain.    7(10)

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8. (a) Names any commonly used word-processor and give any two of its advantages over traditional type-writing.

 (b) List and explain various functions performed by an operating system. 7(10)

### Unit–E

9. Answer the following questions in one to two lines :

 (i) Differentiate between compiler and interpreter.

 (ii) Give name and function of any two LINUX commands.

 (iii) Which one is faster : Cache memory or Flash memory ?

 (iv) What does DOS stand for ?

 (v) Define a computer.

 (vi) Name any one 4GL language.

 (vii) Name any supercomputer made in India. 14(20)

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