HDG-003-003109   Seat No. _____

B. C. A. (Sem. I) (CBCS) Examination

November / December – 2017

CS-03 : Computer Fundamentals & Emerging Technology

(Old Course)

Faculty Code : 003
Subject Code : 003109

Time : $2\frac{1}{2}$ Hours]   [Total Marks : 70

1   Attempt the following questions :   20
   (1)   Give the full form of CRT.
   (2)   Laptop is example of _____ computer.
   (3)   Give the name of First Generation Computer.
   (4)   History of Computer is starts from _____ age.
   (5)   Full form of MICR.
   (6)   List out the name of Pointing devices.
   (7)   What is the full form of CPU ?
   (8)   Explain Carry bit.
   (9)   List out the name of Motherboards.
   (10) What is the full form of ASCII ?
   (11) Main Component of Third Generation Computer.
   (12) UNIVAC stands for _____.
   (13) _____ Printer is also known as Page printer.
   (14) Write down the full form CDMA.
   (15) Processor speed is measured in the _____.
   (16) Full form of EBCDIC.
   (17) A Hybrid computer consists of _____.
   (18) Parity Bit is known as _____.
   (19) Give the full form POS.
   (20) 1's Compliment of 101111011.

2   (a)   Attempt any three from the following :   6
   (1)   Explain Data Processing Cycle.
   (2)   Explain Block Diagram of computer.
   (3)   Write down the Characteristics of Computer.
   (4)   1's complement of following :
      (i)   100110111   (ii) 101101.1010
   (5)   2's complement of following :
      (i)   101000110   (ii) 10011.1110
   (6)   What is Monitor ? Explain types of Monitor.

(b) Attempt any three from the following :   9
    (1) Explain types of Computer in brief.
    (2) Explain types of Scanners.
    (3) Which are the inputs Devices ? Explain it.
    (4) What is RAM ? Explain types of RAM.
    (5) Convert Decimal to Binary
        (i) 39 (ii) 256 (iii) 2482
    (6) Addition of two no :
        (i) 1110001010 +1001101001
        (ii) 11001.10101 + 10101.11100
        (iii) 10111001 + 11011011

(c) Attempt any two from the following :   10
    (1) What is Printer ? Explain in brief types of Printer.
    (2) Explain types of Processors and Mother board.
    (3) Perform binary Multiplication of following no :
        (i) 101101 * 1001   (ii) 111101 * 101
    (4) What is Numbering System ? Explain types of Numbering System.
    (5) Explain types of Magnetic Storage Devices.

3 (a) Attempt any three from the following :   6
    (1) Explain Parity Check in brief.
    (2) Write down any two types of Cables.
    (3) Explain Slots.
    (4) Explain Assembler and Interpreter.
    (5) Explain Nibble and Byte.
    (6) Explain Optical Fiber.

(b) Attempt any three from the following :   9
    (1) Explain types of Languages.
    (2) What is Plotters ? Explain it's types.
    (3) Explain Communication Devices.
    (4) What is ROM ? Explain types of ROM.
    (5) Write down the types of Ports.
    (6) Explain Storage Mechanism of Magnetic Storage Device.

(c) Attempt any two from the following :   10
    (1) What is Operating System ? Explain types of Operating System.
    (2) Explain different Communication methods.
    (3) Explain types of Software Packages in detail.
    (4) What is Compiler ? Explain its types.
    (5) What is Virus ? Explain in brief types of Virus.