PBL-003-1031003   Seat No. _____

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

November / December - 2018

CS - 03 : Computer Fundamentals & Emerging Technology

Faculty Code : 003
Subject Code : 1031003

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

1 (a) Attempt the following :   4
      (1) What is CPU ?
      (2) Full form of EEPROM is.
      (3) Full form of ULSI is.
      (4) Full form of VLSI is.

   (b) Attempt the following : (any one)   2
      (1) Explain ISA Slots and PCI Slots.
      (2) Explain Analog and Digital Computer.

   (c) Attempt the following : (any one)   3
      (1) Explain Dual Core, Core2Duo and i3 processor.
      (2) Explain Simple Model of Computer.

   (d) Attempt the following : (any one)   5
      (1) Explain Characteristics of Computer in detail.
      (2) What is Computer ? Explain Generation of
          Computer in detail.

2 (a) Attempt the following :   4
      (1) What is Trackball ?
      (2) Full form of MICR is.
      (3) Full form of MIDI is.
      (4) Full form of PCS is.

   (b) Attempt the following : (any one)   2
      (1) Explain Types of Scanner.
      (2) Explain Wireless Devices.

   (c) Attempt the following : (any one)   3
      (1) Explain Cloud Storage in detail.
      (2) Explain Track, Sector and cluster.

(d) Attempt the following : (any one) 5
    (1) Explain Floppy Disk, Hard Disk and Magnetic Tape in detail.
    (2) Explain USB-Pen Drive, CD, DVD and Blue-Ray disc in detail.

3 (a) Attempt the following : 4
    (1) Full form of CRT is.
    (2) Full form of LCD is.
    (3) Full form of LED is.
    (4) Full form of SGD is.

  (b) Attempt the following : (any one) 2
    (1) What is Impact Printer ?
    (2) What is Plasma Technology ?

  (c) Attempt the following : (any one) 3
    (1) Explain Google Glass.
    (2) Explain Plotters in detail.

  (d) Attempt the following : (any one) 5
    (1) What is Printer ? Explain Laser Printer, Drum Printer and Chain Printer in detail.
    (2) Differentiate between : LCD v/s LED v/s OLED.

4 (a) Attempt the following : 4
    (1) Full form of BCD.
    (2) Full form of ASCII.
    (3) What is Assembler ?
    (4) Full form of EBCDIC is.

  (b) Attempt the following : (any one) 2
    (1) What is Computer Language ? Explain Machine Level Language.
    (2) What are difference between Compiler and Interpreter ?

  (c) Attempt the following : (any one) 3
    (1) What is Software package ? Explain word-process software package.
    (2) What is Operating System ? Explain various types of Operating System.

  (d) Attempt the following : (any one) 5
    (1) Attempt the following :
      (i) Convert DEC to Bin : 74
      (ii) Convert DEC to HEXA : 152
      (iii) Division : 11011101101 ÷ 11
      (iv) Multiplication 110111110 × 111.

(2) Attempt the following :
    (i)   Addition of Two Bin No : 1110101010 + 11001010
    (ii) Subtraction : 111010100 – 110011011
    (iii) Convert BIN to HEXA : 110110101
    (iv) Convert BIN to OCT : 111010101

5   (a)   Attempt the following :   **4**
           (1) Full form of GIS is.
           (2) Full form of GPS is.
           (3) Full form of GSM is.
           (4) Full form of CDMA.
    (b)   Attempt the following : (any one)   **2**
           (1) Explain WiFi and Lifi.
           (2) What is Backup and Restore ?
    (c)   Attempt the following : (any one)   **3**
           (1) Explain Menu, Popup Menu and Toolbar.
           (2) Explain UPS in detail.
    (d)   Attempt the following : (any one)   **5**
           (1) What is virus ? Explain problems and protection
                from Virus.
           (2) What is Cloud Computing ? Explain characteristics
                and Service Models in detail.

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