



**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 :  $11011101101 \div 11$
    - (iv) Multiplication  $110111110 \times 111$ .

- (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.