



JAQ-003-2031003

Seat No. _____

B. C. A. (Sem. I) (CBCS) (W.E.F. 2019) Examination

November - 2019

**CS - 03 : Computer Fundamentals & Emerging
Technology**

Faculty Code : 003

Subject Code : 2031003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

- 1 (A) Attempt the following : 4
- (1) What is Motherboard?
 - (2) Full form of EPROM is?
 - (3) Full form of ULSI is?
 - (4) Full form of UNIVAC is?
- (B) Answer in brief : (Any One) 2
- (1) Explain different types of Slots.
 - (2) Explain Micro, Mini and Mainframe Computers.
- (C) Answer in detail : (Any One) 3
- (1) Explain Analog, Digital and Hybrid Computers.
 - (2) Explain Characteristics of Computer.
- (D) Write a note on : (Any One) 5
- (1) Simple Model of Computer in detail.
 - (2) Generation of Computer in detail

- 2 (A) Attempt the following : 4
- (1) What is Digitizer?
 - (2) Full form of OCR is?
 - (3) Full form of MIDI is?
 - (4) Full form of OMR is?
- (B) Answer in brief : (Any One) 2
- (1) Explain POS
 - (2) Explain Wireless Devices
- (C) Answer in detail : (Any One) 3
- (1) Explain Floppy Disk, Hard Disk and Magnetic Tape in details.
 - (2) Explain Track, Sector and Cluster in details.
- (D) Write a note on : (Any One) 5
- (1) Types of Scanner in details.
 - (2) Explain USB-Pen Drive, CD, DVD and Blu-Ray disc in details.
- 3 (A) Attempt the following : 4
- (1) What is COM?
 - (2) Full form of LCD is ?
 - (3) Full form of OLED is?
 - (4) Full form of SGD is?
- (B) Answer in brief : (Any One) 2
- (1) Explain Google Glass.
 - (2) Explain CRT Monitor.

- (C) Answer in detail : (Any One) 3
- (1) Explain Plasma Technology.
 - (2) Explain Plotters in details.
- (D) Write a note on : (Any One) 5
- (1) Explain Dot Matrix Printer, Drum Printer and Chain Printer in detail.
 - (2) Explain Laser Printer and Inkjet Printer in detail.
- 4 (A) Attempt the following : 4
- (1) Full Form of BCD?
 - (2) Full form of ASCII?
 - (3) What is Interpreter?
 - (4) 1 Nibble store _____ Bits.
- (B) Answer in brief : (Any One) 2
- (1) Explain High Level Language.
 - (2) Explain Compiler.
- (C) Answer in detail : (Any One) 3
- (1) What is Software package? Explain Word-process and Presentation Software package.
 - (2) Explain Batch and Multiprocessing Operating System.
- (D) Attempt the following : (Any One) 5
- (1) Attempt the following :
 - (1) Convert DEC to Bin: 275
 - (2) Convert OCTAL to HEXA : 5552
 - (3) Addition of Two Bin No: 1110101001 + 110010101
 - (4) Multiplication: 100111101 \times 111.

- (2) Attempt the following :
 - (1) Division: $110111011 \div 110$.
 - (2) Subtraction: $111010110 - 110011001$
 - (3) Convert HEXA to BIN : 7E2A.FB
 - (4) Convert BIN to OCT : 11101011101

- 5 (A) Attempt the following : 4
- (1) Full form of ATM is?
 - (2) Full form of GPS is?
 - (3) What is Virus?
 - (4) Full form of GSM is?
- (B) Answer in brief : (Any One) 2
- (1) Explain Modem.
 - (2) Explain Benefits of LiFi.
- (C) Answer in detail : (Any One) 3
- (1) Explain Spatial Light Modulator.
 - (2) Explain UPS in detail.
- (D) Write a note on : (Any One) 5
- (1) Explain problems and protection from Virus.
 - (2) Explain Cloud Computing Architecture and Service Models in detail.