



JAQ-003-1031003 Seat No. _____

B. C. A. (Sem. I) (CBCS) (W.E.F. 2016) Examination

November - 2019

CS - 03 : Computer Fundamentals & Emerging Tech.

Faculty Code : 003

Subject Code : 1031003

Time : Hours]

[Total Marks :

- 1 (A) Attempt Following Objective Questions : 4
- (1) The brain of any computer system is.
 - (2) Full form of ALU.
 - (3) Define Motherboard.
 - (4) USB Stands for.
- (B) Answer in brief : (any **one**) 2
- (1) List Out types of Processors, Define any one.
 - (2) What is Computer? Draw Block diagram of it.
- (C) Answer in detail : (any **one**) 3
- (1) Explain generation of computers.
 - (2) List out types of cables, Explain any Two.
- (D) Write Note on following : (any **one**) 5
- (1) Characteristics of computer.
 - (2) Memory structure and types of memory.

- 2** (A) Attempt Following Objective Questions : **4**
- (1) Full form of OBR.
 - (2) Define Flash Memory.
 - (3) Full form of DVD.
 - (4) Define Seek time.
- (B) Answer in brief : (any **one**) **2**
- (1) Explain cloud storage.
 - (2) Explain MIDI.
- (C) Answer in Detail : **3**
- (1) List out types of scanners. Explain OCR.
 - (2) Explain Storage mechanism of magnetic storage devices.
- (D) Write Note on following : **5**
- (1) What is input device? List out input devices, explain any two.
 - (2) What is magnetic Storage device? List out all, explain any two.
- 3** (A) Attempt Following Objective Questions : **4**
- (1) Full form of CRT.
 - (2) Full form of OLED.
 - (3) Which type of monitor uses bulb technology in order to display the data.
 - (4) SGD also known as _____.

- (B) Answer in brief : (any **one**) **2**
- (1) Explain Facsimile.
 - (2) Explain Headphone.
- (C) Answer in Detail : **3**
- (1) Define Output device? List out all, Explain any one.
 - (2) Explain Plotters with types.
- (D) Write Note on following : **5**
- (1) List types of printers and explain it.
 - (2) Explain non CRT display units.
- 4 (A) Attempt Following Objective Questions : **4**
- (1) How many types computer languages and List out it ?
 - (2) 1's complement of the 10010.
 - (3) 1 MB = _____ KB.
 - (4) Full form of ASCII.
- (B) Answer in brief : (any **one**) **2**
- (1) $(1100011)_2 = (\quad)_{10}$
 - (2) Give Difference between Compiler and Interpreter.
- (C) Answer in Detail : (any **one**) **3**
- (1) Explain types of number system.
 - (2) What is OS? Explain types of it.

- (D) Write Note on following : (any **one**) **5**
- (1) (i) $(01010011)_2 + (01110110)_2 = \underline{\hspace{2cm}}$
 - (ii) $(48765)_8 = (\hspace{1cm})_2$
 - (iii) Convert into BCD Code: 12032.
 - (iv) $1011 * 1010$
 - (v) $1100011 / 100001$.
 - (2) Explain Types of Software packages.
- 5** (A) Attempt Following Objective Questions : **4**
- (1) Full form of CPS.
 - (2) What is backup and recovery.
 - (3) Define Infrared.
 - (4) Full form of GPS.
- (B) Answer in brief : (any **one**) **2**
- (1) Explain Bus and Data Bus.
 - (2) Explain Bluetooth with different types.
- (C) Answer in Detail : (any **one**) **3**
- (1) List out communication devices? Explain any Two.
 - (2) What is modem? Explain with its type.
- (D) Write Note on following : (any **one**) **5**
- (1) Write note on Cloud computing.
 - (2) What is virus? Types of Virus? Problem and protection from Virus.