

B.C.A Semester - 1 (CBCS) Examination**Nov/Dec - 2022 (NEW COURSE)****COMPUTER FUNDAMENTALS & EMERGING TECHNOLOGY(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q-1 (a) Answer the following questions [3]**
1. Write full form of ALU.
 2. Write full form of RAM.
 3. Write full form of ROM.
- (b) Answer the following questions (ANY TWO) [6]**
1. Define USB, Serial port and Parallel port.
 2. Explain classification of Computers by Data Processed.
 3. Explain Characteristics of computer.
 4. Explain Simple Model of Computer.
- (c) Answer the following questions (ANY ONE) [5]**
1. Explain secondary storage devices.
 2. Explain classification of Computer by Processing Capabilities.
- Q-2 (a) Answer the following questions [3]**
1. Write full form of OMR.
 2. Write full form of POS.
 3. Write full form of LED.
- (b) Answer the following questions (ANY TWO) [6]**
1. Explain any 3 Input devices.
 2. Explain CRT and LCD displays.
 3. Explain Touch Screen and Light Pen.
 4. Explain Wireless devices.
- (c) Answer the following questions (ANY ONE) [5]**
1. Explain Google glass and Headphone.
 2. Explain different Impact and Non-Impact Printers.
- Q-3 (a) Answer the following questions [3]**
1. Write full form of CD.
 2. Write full form of HDD.
 3. List out magnetic storage devices.
- (b) Answer the following questions (ANY TWO) [6]**
1. Explain Flash Memory.
 2. Explain Seek Time and Rotational delay – Latency.
 3. Explain Reading and Writing data to and from storage devices.
 4. Explain Cloud Storage.
- (c) Answer the following questions (ANY ONE) [5]**
1. Explain Tracks, clusters & cylinders.
 2. Explain Hard Disk and Floppy Disk.

- Q-4 (a) Answer the following questions [3]**
1. Base of Binary number system is _____.
 2. 1 Nibble = _____ Bits.
 3. 1 KB = _____ Byte.
- (b) Answer the following questions (ANY TWO) [6]**
1. Explain ASCII, BCD and EBCDIC code.
 2. Explain different types of Languages.
 3. Explain 1's Compliments and 2's Compliments.
 4. Explain binary number system with example.
- (c) Answer the following questions (ANY ONE) [5]**
1. Explain different Translators.
 2. Explain Hexadecimal to Binary number conversion with example.
- Q-5 (a) Answer the following questions [3]**
1. What is GSM?
 2. What is LiFi?
 3. Write full form of GPS.
- (b) Answer the following questions (ANY TWO) [6]**
1. Explain: CDMA.
 2. Explain VOLTE.
 3. What is Virus? Explain types of Virus.
 4. Explain: Infrared and Bluetooth.
- (c) Answer the following questions (ANY ONE) [5]**
1. Explain laas, Pass & Saas.
 2. Explain: Cell Phone and Modem.
