

B.C.A Semester - 1 (CBCS) Examination**Oct/Nov. -2019 (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.
-

- 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 USB.
- (b) Answer the following questions (ANY TWO) [6]**
1. Explain classification of Computers by Data Processed.
 2. Explain Simple Model of Computer.
 3. Explain briefly different types of processors available.
 4. Explain Memory Structure and Types of Memory.
- (c) Answer the following questions (ANY ONE) [5]**
1. Explain classification of Computer by Processing Capabilities.
 2. Explain secondary storage devices.
- Q-2 (a) Answer the following questions [3]**
1. Write full form of OMR.
 2. Write full form of MICR.
 3. Write full form of LED.
- (b) Answer the following questions (ANY TWO) [6]**
1. Explain CRT and LCD displays.
 2. Explain Touch Screen and Light Pen.
 3. Explain Wireless devices.
 4. Explain Google Glass and COM.
- (d) Answer the following questions (ANY ONE) [5]**
1. Explain any 3 Input devices in detail.
 2. Explain different Impact and Non-Impact Printers.
- Q-3 (a) Answer the following questions [3]**
1. List out magnetic storage devices.
 2. Write full form of CD.
 3. Write full form of DVD.

- (b) **Answer the following questions (ANY TWO)** [6]
1. Explain Reading and Writing data to and from storage devices.
 2. Explain Tracks, Sectors and Clusters.
 3. Explain Cloud Storage.
 4. Explain Flash Memory.
- (d) **Answer the following questions (ANY ONE)** [5]
1. Explain Seek Time and Rotational delay – Latency.
 2. Explain Hard Disk and Floppy Disk.
-
- Q-4** (a) **Answer the following questions** [3]
1. 1 Byte = _____BIT.
 2. 1 KB = _____ Byte.
 3. Base of Hexadecimal number system is _____.
- (b) **Answer the following questions (ANY TWO)** [6]
1. Explain different types of Languages.
 2. Explain different Software Packages.
 3. Explain different Translators.
 4. Explain 1's Compliments and 2's Compliments.
- (d) **Answer the following questions (ANY ONE)** [5]
1. Explain Decimal to Binary number conversion with example.
 2. Explain ASCII, BCD and EBCDIC code.
-
- Q-5** (a) **Answer the following questions** [3]
1. What is WiFi?
 2. Write full form of GSM.
 3. Write full form of GPS.
- (b) **Answer the following questions (ANY TWO)** [6]
1. What is Virus? Explain types of Virus.
 2. Explain: Infrared and Bluetooth.
 3. Explain: Modem.
 4. Explain VOLTE.
- (c) **Answer the following questions (ANY ONE)** [5]
1. Explain: Cell Phone and Modem.
 2. Explain Cloud Computing.
