

DK-104

December-2022

BCA., Sem.-I

CC-101 : Introduction to Computer and Emerging Technologies
(New)

Time : 2:30 Hours]

[Max. Marks : 70

1. (a) Explain: Super computers, cloud computing and All-in one computer. 7
(b) Explain in short: Ports and wireless communications. 7

OR

(a) Explain Laptop, Tablets and Server. 7
(b) Explain Wearable devices, e-book reader and different types of messages. 7
2. (a) Explain Processor and instruction cycle. 7
(b) Explain different types of DVDs and cache memory. 7

OR

(a) Explain Hard disk and RAID. 7
(b) Differentiate volatile and non-volatile memory. Also explain different types of buses. 7
3. (a) Explain: Styles, Touchpad and MICR reader. 7
(b) What is Printer ? Explain inject printer and laser printer. 7

OR

(a) Write a short note on: Display technology and RFID readers. 7
(b) Explain Bar code reader, optical scanner and ergonomic keyboard. 7
4. (a) Explain ASCII code and 16-bit Unicode. 7
(b) Convert $(11101)_2$, $(761.12)_8$ and $(E8B)_{16}$ to decimal. 7

OR

(a) Convert: $(25)_8$ into Binary, $(1101.0001)_2$ into Hexa and $(EA)_{16}$ to Octal. 7
(b) Convert: $(135)_{10}$ into Binary, $(0.2368)_{10}$ into Octal and $(4869)_{10}$ into Hexadecimal. 7
5. Attempt any seven. 14
(i) Which of the following is a storage device?
(A) Tape (B) Hard Disk
(C) Floppy Disk (D) All of the above

- (ii) One byte consists of ____
- (A) One bit (B) Four bits
(C) Eight bits (D) 16 bits
- (iii) Which of the following is also known as brain of computer ?
- (A) Control unit (B) Central Processing unit
(C) Arithmetic and language unit (D) Monitor
- (iv) Which of the following is not an input device ?
- (A) OCR (B) Optical scanners
(C) Voice recognition device (D) VDU
- (v) How many different peripheral devices can be connected by USB port together with a single connector ?
- (A) 128 (B) 126
(C) 125 (D) 127
- (vi) What is the decimal equivalent of the binary number 10111 ?
- (A) 21 (B) 39
(C) 42 (D) 23
- (vii) What does EBCDIC stand for ?
- (A) Extended Binary Coded Decimal Interchange Code
(B) Extended Bit Code Decimal Interchange Code
(C) Extended Bit Case Decimal Interchange Code
(D) Extended Binary Case Decimal Interchange Code
- (viii) Which of the following is software that enables users with an Internet connection to access and view web pages on a computer or mobile device ?
- (A) Search engine (B) Browser
(C) Server (D) Digital media player
- (ix) Which of the following is a technique used by RAID, which splits data, instructions and information across multiple drives in the array ?
- (A) Copying (B) Mirroring
(C) Striping (D) Duplicating
- (x) Which of the following technique uses short-range radio signals to enable computers and devices to communicate with each other ?
- (A) Bluetooth (B) WIFI
(C) Server (D) None of these
- (xi) Which of the following is a network of several servers together in a single location ?
- (A) Server farm (B) Main frame
(C) Network (D) Firmware
- (xii) Which of the following memory is not a non-volatile memory ?
- (A) ROM (B) Flash
(C) CMOS (D) RAM