Seat No. : _____

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

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(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

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