B. C. A. (Sem. I) (CBCS) Examination

November / December – 2017

CS-03 : Computer Fundamentals & Emerging Technology

(New Course)

Faculty Code : 003
Subject Code : 1031003N

Time : $2\frac{1}{2}$ Hours]   [Total Marks : **70**

1   (a)   Answer the following questions :   4

   (1)   Who was the inventor of first mechanical Calculator machine ?

   (2)   Give the full form of UNIVAC.

   (3)   Which is the main component of Third Generation Computer?

   (4)   Give the full form of EEPROM.

   (b)   Attempt any one out of two from the following :   2

   (1)   Explain Processors with its types.

   (2)   Explain Evolution of Computers.

   (c)   Attempt any one out of two from the following :   3

   (1)   Explain types of Ports in brief.

   (2)   Explain in brief types of ROM.

   (d)   Attempt any one out of two from the following :   5

   (1)   Give in detail about types of Computer.

   (2)   Explain in brief Generation of Computer.

2   (a)   Answer the following questions :   4

   (1)   Give the full form of POS.

   (2)   Which Input device is used to translate paper document into an electronic format ?

   (3)   Give the full form of VoIP.

   (4)   Full form of OCR.

(b) Attempt any one out of two from the following :   **2**

     (1) Explain Digitizers and Graphic Tablet.

     (2) Give in detail about Seek Time and Access Time.

(c) Attempt any one out of two from the following :   **3**

     (1) Explain Tracks, Sectors and Clusters.

     (2) Explain types of Pointing Device.

(d) Attempt any one out of two from the following :   **5**

     (1) Explain in brief types of Magnetic Storage Devices.

     (2) What is Scanners? Explain types of Scanners.

3 (a) Answer the following questions :   **4**

     (1) Give the full form of VDU.

     (2) Tele-copying is also known as _____.

     (3) Give the name of Non Impact Printers.

     (4) Full form of COM.

(b) Attempt any one out of two from the following :   **2**

     (1) Give in detail about Google Glass.

     (2) Explain SGD.

(c) Attempt any one out of two from the following :   **3**

     (1) Explain types of Monitors.

     (2) Explain OLED in brief.

(d) Attempt any one out of two from the following :   **5**

     (1) Explain types of Impact Printers in brief.

     (2) What is Plotters? Explain types of Plotters.

4 (a) Answer the following questions :   4

(1) Nibble is also known as _____.

(2) 1's Compliment of 011001010.

(3) Give the full form of EBCDIC.

(4) 2's Compliment of 00110101

(b) Attempt any one out of two from the following :   2

(1) (i)   Convert Decimal to Binary $174_{10} = ?_2$

(ii) Convert Binary to Decimal $110010110_2 = ?_{10}$

(2) Perform binary Multiplication of following no. :

(i)   1101 * 101

(ii) 1110 * 111

(c) Attempt any one out of two from the following :   3

(1) Addition of two no. :

(i)   11101001 + 10111101

(ii) 1011100.1010 + 1110101.0100

(iii) 11001001 + 111101

(2) Explain Graphical and Spread Sheet Packages in brief.

(d) Attempt any one out of two from the following :   5

(1) What is Numbering System? Explain types of Numbering System.

(2) Explain types of Operating Systems in brief.

5 (a) Answer the following questions :   4

(1) Full form of GIS.

(2) Converting one signal from digital to analog is called _____.

(3) Give the full form of CDMA.

(4) _____ a small picture that represents an Object or Program.

(b) Attempt any one out of two from the following : 2

    (1) Explain Backup and Restore.

    (2) Explain Infrared and Bluetooth.

(c) Attempt any one out of two from the following : 3

    (1) Explain types of Virus.

    (2) What is Compiler? Explain its type.

(d) Attempt any one out of two from the following : 5

    (1) Explain any five Communication Devices in brief.

    (2) Explain in brief Cloud Computing.

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