B. C. A. (Sem. 1) Examination

March – 2021

BCA-103 : Computer Organization

(Old & New Course)

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

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1 (A) Answer the following :   **6**

   (1) Explain: Computer, Software.

   (2) Differerice between Digital and Analog system.

   (3) Full form: BITS, GUI

   (B) Attempt any **Two** :   **12**

   (1) Explain Laptop and Super Computer in detail.

   (2) Discuss any three Generation of Computer in detail.

   (3) Explain Major Pats of Computer.

2 (A) Answer the following :   **5**

   (1) What is Seek time and Latency time?

   (2) Give Full Name: LCD, VDU

   (3) List out Input & Output Device

   (4) What is Pixel?

   (5) What is Cache Memory?

   (B) Attempt any **Two** :   **12**

   (1) Explain CRT in detail.

   (2) Explain ROM with its types.

   (3) Explain Communication Device.

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3 **(A)** Answer the following : **6**

    (1) List out the types of Number System: Explain any one with Example.

    (2) Explain, Binary Addition Rules with Ex: 1010 + 1010

    (3) Subtract 11011 from 11110

  (B) Attempt any **Six** : **12**

    (1) $1010.11 + 1101.10 - + -1001.11 + 1111.11$

    (2) $(10111101.10111)_2 = ()_{10} = ()_8$

    (3) $(B9AF.AE)_{16} = ()_8$

    (4) $(4057.06)_8 = ()_{10}$

    (5) $(8715)_{10} = ()_{16}$

    (6) $(4BAC)_{16} = ()_2$

    (7) $(49056)_{10} = ()_2$

4 **(A)** Answer the following : **5**

    (1) Explain XS-3 code with Ex: 5 + 3

    (2) What is gate? Explain Universal gate.

  (B) Attempt any **Two** : **12**

    (1) Explain Half adder and Full adder in detail.

    (2) Explain 8421 BCD code with Ex: 25 + 13

    (3) Explain Decoder with its types.

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