2021

Computer Science

[HONOURS]

(CBCS)

(B.Sc. First Semester End Examination-2021)

PAPER-GE1T

Full Marks: 40   ***Time: 02 Hrs***

The figures in the right hand margin indicate marks

Candidates are required to give their answers in their own words as far as practicable

Illustrate the answers wherever necessary

Group-A

1. **Answer any FIVEquestions of the following:**   **2x5=10**

   i) What is interpreter?

   ii) What is register?

   iii)What is software?.

   iv) What is SMPS?

   v) What is Input device? Give an example.

   vi) What are the difference between RAM and ROM?

   vii)   Find the result: $(10111)_2 + (1111)_2 = (?)_2$.

   viii)   What will be the result $(10001)_2 - (1101)_2 = (?)_2$

Group-B

Answer any FOUR questions of the following: 5x4 = 20

1. (a) $(57)_{10} \rightarrow (?)_2$

   (b) $(31.62)_{10} \rightarrow (?)_{16}$

   (c) $1011.011 + 101.011 = (?)_2$

2. (a) What is one's complement and two's complement?

    (b) subtract 1011.010 from 1110.100 using 1's complement method.

3. Describe block diagram of computer.

4. What is bus in computer system? Write down the different type of Buses in computer system

5. Explain the cache memory in detail.

6. Describe Bluetooth and mobile computing.

Group –C

Answer any TWO questions of the following: 10x2 = 20

1. a) What isa OCR?

   b) What is barcode reader?

   c) Describe optical disks.

   d) What is OMR?   2+2+3+3

2. What do you mean by Secondary storage? What are the difference between primary and secondary memory? Discuss about various type of secondary storage.

                                                2+3+5