TBC-102/TBI-102

In RECENT MAY

B. C. A./B. Sc. (IT) (FIRST SEMESTER) MID SEMESTER **EXAMINATION, Nov., 2022**

COMPUTER FUNDAMENTALS AND INFORMATION TECHNOLOGY

Time: 11/2 Hours

Maximum Marks: 50

- Note: (i) Answer all the questions by choosing any one of the sub-questions.
 - (ii) Each sub-question carries 10 marks.
- 1 (a) Discuss Computer and their characteristics in detail. (CO1) OR

(b) What is the need of computer system in our day-to-day life ? Explain any five applications of computer. (CO1)

- (2) TBC-102/TBI-102
- 2. (a) Draw the block diagram of computer and explain various components of computer system. (CO1)

OR

- (b) Explain all the five generations of computer with advantages and disadvantages of each generation. (CO1)
- 3. (a) Differentiate between the following:

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- (i) System software and Application software
- (ii) Hardware and Software

OR

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- (b) Discuss classification of computers according to Size, Type and Purpose in detail. (CO1, CO2)
- 4. (a) Discuss various types of Printers and monitors in detail. (CO2)

(3)

OR

- (b) Discuss Memory Hierarchy with the help of triangle diagram. Explain the types of RAM and ROM in detail. (CO2)
- 5. (a) Perform the following conversions: (CO2)
 - (i) $(7986)_{10} \rightarrow ()_8$
 - (ii) $(76422)_8 \rightarrow ()_{16}$
 - (iii) (DA4EC)₁₆ \rightarrow ()₁₀
 - (iv) $(1011110111001)_2 \rightarrow ()_{10}$
 - (v) $(98768)_{10} \rightarrow ()_2$

OR

(b) Write down the Binary Code and Gray Code equivalent of the following Decimal numbers: (CO2)

11, 12, 13, 14, 15

1,900