Exam.Code: 0905 Sub. Code: 6657

1108

B.E. (Computer Science and Engineering) First Semester CS-102: Introduction to Computer Science and Engineering

Time allowed: 3 Hours

Max. Marks: 50

NOTE: Attempt <u>five</u> questions in all, including Question No. I which is compulsory and selecting two questions from each Unit.

x-x-x

- I. Attempt the following:
 - a) What is Trojan horse?
 - b) What is MICR? Where it is used?
 - c) Give the basic difference between Compiler, Interpreter and Assembler.
 - d) Find the decimal equivalent of hexadecimal number 4D.C8
 - e) Differentiate between Intranet and Extranet.
 - f) What is EEPROM?
 - g) What is Computer Vision?
 - h) Differentiate between an Algorithm and a Flow Chart.
 - i) What is Application software?
 - j) List different modes of communication.

(10x1)

UNIT-I

- II. a) Explain different types of mother boards along with their components.
 - b) Convert hexadecimal number EBC into its binary and octal equivalent.

(7,3)

- III. a) Explain different levels of the Memory Hierarchy with diagram.
 - b) Explain differences between Viruses and Worms.

(2x5)

- IV. a) Briefly differentiate between the following:
 - i) Von-Newmann model and Turing Model.
 - ii) LI and L2 cache
 - b) Explain different social and ethical issues in Computer Science and Engineering. (2x5)

P.T.O.

<u>UNIT - II</u>

- V. a) Explain' importance of Theory of Computation in Computer Science and Engineering.
 - b) Explain latest trends in Computing.

(2x5)

- VI. a) What are the roles and responsibilities of a DBA?
 - b) Explain different operations that can be performed on Stacks and Queues in Data Structure. (2x5)
- VII. a) Explain basic symbols of flow charts. Also explain the advantages of using flow charts.
 - b) Explain Software Development Life Cycle (SDLC) in Software Engineering. (2x5)

x-x-x