

Exam.Code:0905
Sub. Code: 6657

1129

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 five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.

x-x-x

I. Attempt the following:-

- a) Define Interpreter and Compiler.
- b) List any four types of Data Structures.
- c) Convert $(154F)_{16}$ to Decimal and Octal number.
- d) What is relevance of Theory of Computation in computer science?
- e) Write various types of slots and ports of a computer. (5x2)

UNIT - I

- II. a) What are various types of computers? Describe various units of a computer with the help of a block diagram.
b) Explain Von-Newmann model in computer science? How Laser printers are better than Ink-jet printers? (5,5)
- III. a) Describe key components of mother board of a computer. What are Add on cards?
b) How computer viruses, worms and trozons are different from each other? (5,5)
- IV. a) How a CD-ROM drive reads data from the surface of a compact disc?
b) Differentiate between Virtual memory and Physical memory. (5,5)

UNIT - II

- V. a) Write an algorithm to find the greatest number out of three given numbers.
b) Draw a flow chart to check whether a given number is prime or not. (5,5)
- VI. Write a short on following:-
 - a) Artificial Intelligence
 - b) Data Structures
 - c) Database
 - d) Software Engineering (10)
- VII. a) What are various social and ethical issues related to computing technology?
b) Define Database. What is the significance of DBMS? (5,5)

x-x-x