

1059

B.E. (Information Technology) First Semester  
IT-101: Introduction to Information Technology

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. Answer the following:-

- a) What is the use of 2's complement?
- b) BCD of decimal number 67 is
- c) Define Moore's Law?
- d) What is WWW?
- e) What is IT act?

(5x2)

UNIT - I

II. Perform the following number conversions:-

- a)  $(135)_{10} = (?)_2$
- b)  $(479)_{10} = (?)_{BCD}$
- c)  $(10110111)_2 = (?)_{16}$
- d)  $(724)_8 = (?)_2$
- e)  $(6254)_{10} = (?)_8$

(10)

III. a) What is the difference and relation between machine code, assembly language and high level languages?

b) Explain different Input- Output devices used in computer?

(2x5)

IV. Write short note on:-

- a) Physical devices used to construct Memories
- b) CD-ROM

(2x5)

UNIT - II

V. a) Explain different types of Interrupt structures? What is RISC?

b) What are the different categories of software? Explain briefly?

(2x5)

VI. a) What are the fourth generation languages? How these are different from high level languages?

b) Explain ER models with suitable example?

(2x5)

P.T.O.

(2)

VII. Write note on any two of the following:-

- a) URL
- b) Fast-Ethernet
- c) Cyber Crime

(5x2)

x-x-x