Exam.Code:0905 Sub. Code: 6198

(6+4)

## 2123

## B.E.(Information Technology), First Semester ITC-101: Introduction to Information Technology

Time allowed: 3 Hours Max. Marks: 50 NOTE: questions in all, including Question 1 which Attempt five compulsory and selecting two questions from each Section Q1 Answer the following: (a) Differentiate between IPv6 and IPv4. (b) What do mean by compilation? (c) Explain usage of ALU. (d) What do you mean by SQL? (e) Discuss the concept of distributed operating system. (5\*2=10)**SECTION-A** Q2 a) Compare the flowchart and pseudo code with suitable example? 5 b) Write an algorithm to print first n Prime numbers and also print their sum. 5 Q3 For a digital computer, explain its block diagram in details. Also list best possible configuration of the laptop. (7+3)Q4. Covert the following 10  $(C5B)_{16} =$ (?)2  $(AC)_{16} =$ b) (?)10 c)  $(34.65)_{10} =$ (?)  $(10110001)_2 = (?)_{10}$ d)  $(40.75)_{10} =$ (?)16 **SECTION-B** Q5 What do you mean by Relational Database Management System? Explain different types of DBMS users. (6+4)Q6 Describe TCP/IP network model in details and also compare with OSI network model. (6+4)Q7. What is an operating system and also explain its different features? Differentiate between WINDOWS and UNIX operating systems.