

2014
B.E., (Computer Science and Engineering)
Second Semester
CSC-202: Introduction to Computer Science

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 Section.

x-x-x

Q.1	a) Give difference between coupling and cohesion. b) What is Normalization? Explain 2NF. c) Explain HTTP. d) Explain architecture of Expert Systems. e) What is Difference between TCP and UDP	2X5
SECTION-A		
Q-2	a) Name all phases used for Software Engineering. Explain Object Oriented Analysis. b) Explain the Internal structure of CPU with all registers	5,5
Q-3	a) Draw diagram of Memory Hierarchy. What is virtual Memory and concept on which it is based? b) Draw a flowchart to find factorial of a user entered number.	5,5
Q-4	a) Subtract $(101111)_2$ from $(1100001)_2$ b) $(358.78)_8$ to $(?)_{10}$ c) $(7AE)_{16}$ to $(?)_{10}$ d) $(75.8)_{10}$ to $(?)_8$ e) Complement of $(56)_8$ f) $(01111110.01)_2$ to $(?)_{10}$ g) Subtract $46 - 87$ decimal numbers using 2's complement method h) Convert 432010 into the octal system. i) $(12345)_{10}$ to $(?)_2$ j) Convert 1448 into the hexadecimal system.	1X10
SECTION-B		
Q-5	a) Write an algo to insert node at beginning and delete node from middle in a Linklist. Show with example. b) 5 Explain message passing from sender to receiver node at all 7 layers.	5,5
Q-6	a) What is RDBMS? Explain Project and join operation of SQL with example. b) Define Analysis phase of Software engineering process and Tools used in procedure oriented analysis with examples.	5,5
Q-7	a) Write an algorithm to convert decimal to binary and store it in array. Draw flowchart also. b) What is ROM? Compare ROM, PROM, EPROM.	5,5

x-x-x