

# **CT Questions**

PREMIER UNIVERSITY  
DEPARTMENT OF CSE  
COURSE NAME: Basic Economics  
COURSE CODE: ECO201  
SEMESTER-3<sup>rd</sup>  
SPRING-2019  
CLASS TEST-1

Time: 30 Minutes

Marks: 10

(Answer the following questions)

- ✓1. Define Economics. Who is the founder of Economics? 2
- ✓2. Differentiate the following variables as a microeconomic or macroeconomic. 3  
Supply, GDP, Aggregate Demand, Price, Unemployment, personal income
- ✓3. Given,  $Q_d = 20 - 4P$  5  
Graphically Explain it.

**Class Premier University**  
**Department of Computer Science & Engineering**  
**Course Code: CSE 221 Course Title: Data Structures**  
**Class Test-1 Marks: 10 Time: 15 mins**

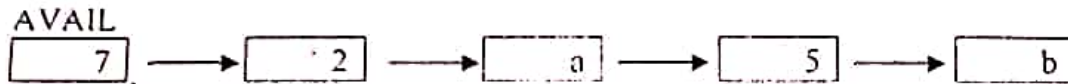
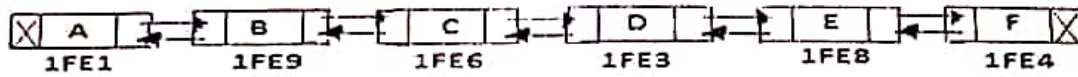
1. Consider the following data:

20, 15, 27, 42, 50, 55, 5, 77, 8, 14

Sort these data in ascending order applying bubble sort. After that find location of the element 8 using binary search.

- a. Write down the algorithm to accomplish the following operation:  
i. Find the location of a given ITEM occurs in the unsorted single linked list.

- b. Consider the following Linked List:



- i) Find the array representation of the above linked list.

Memory Address	LEFT-LINK	DATA	RIGHT-LINK
1FE1			
1FE2			
1FE3			
1FE4			
1FE5			
1FE6			
1FE7			
1FE8			
1FE9			
1FEA			
1FEB			

ii) Insert G in between D and E in memory location 1FE5. Then draw the linked list and array representation.

iii) Delete C from the linked list. Then draw the linked list and array representation.

iv) Insert G at the beginning of the list and then C is deleted from the list.

Find the final structure

- c. The Following Figure is a list of five hospital patients and their room numbers. (a) Fill in values for NSTART and NLINK so that they form an alphabetical listing of the names. (b) Fill in values for RSTART and RLINK so that they form an ordering of the room numbers.

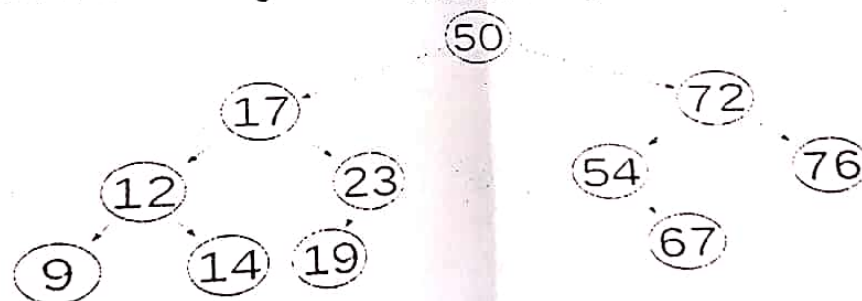
RSTART

NSTART

	NAME	ROOM	NLINK	RLINK
1	Brown	650		
2	Smith	422		
3	Jones	462		
4	Adams	704		
5	Burns	632		

Premier University  
Department of Computer Science & Engineering  
Course Code: CSE 221 Course Title: Data Structures  
Class Test-3 Marks: 10 Time: 30 mins

1. Insert 55, 66, 77, 15, 11, 33, 22, 35, 25, 44 into an empty AVL tree.
2. Consider the following tree. Find the followings:



- I. Height of the Tree
- II. levels of node 17, 54, and 67
- III. Root of the tree
- IV. Longest path of the tree

**Digital Electronics**  
**Class Test-1**

**Total:10**

**Time:30**

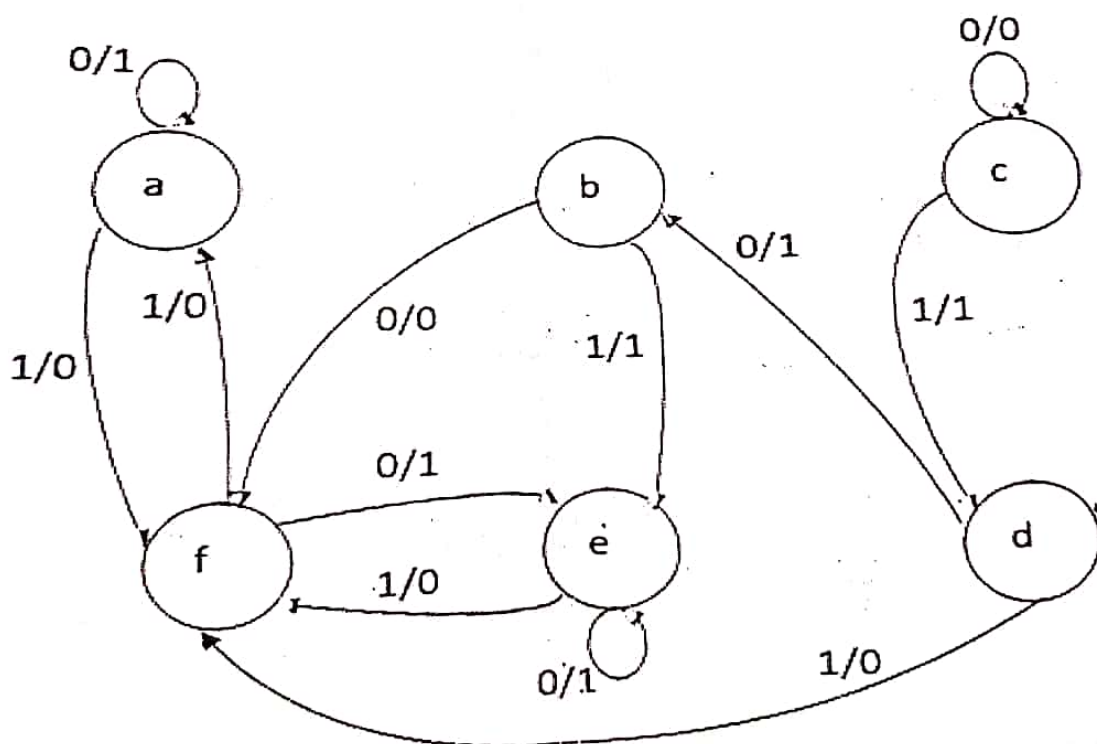
- Q1 Express the Boolean function  $F = AB + A'C$  in a  
Sum of minterms & Product of maxterms 3
- Q2 Simplify the following Boolean expressions in a sum of product 4
- $X'Y + YZ' + Y'Z'$
  - $x'y' + xy + x'yz'$
- Q3 Prove that,  $x + xy = x$  & 3
- Perform the subtraction using 9's complement  $M = 8973, N = 93414$

Class Test-2

SET: A

Time: 15 min

Q.1 Create reduced state table & diagram for the following state diagram.



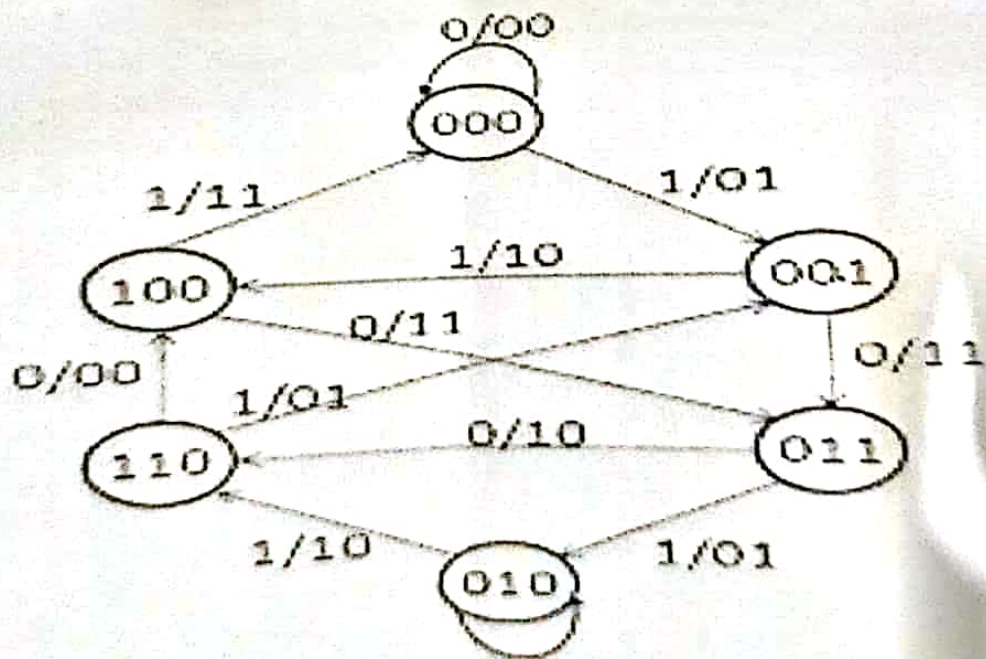


Class Test-2

SET: B

Time: 15 min

Create reduced state table & diagram for the following state diagram.





## Math III CT Questions -



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## Math III CT Questions -

Noor Ma'am has written the questions on the boards, that's why i have typed the questions in note.



## CT - 01

1) show  $f(z)=4x+y+i(-x+4y)$  is differentiable or not

2)  $w= f(z)=z^2+3z$  find  $u$  and  $v$  and calculate the value of  $f$  at  $z=1+3i$

## CT - 02

Arithmetic mean, Median mean, Mode (From Statistics topic)



**Premier University**

**Department of Computer Science and Engineering**

**Course Title:** Object Oriented Programming    **Course Code:** CSE 211

**Session:** February, 2019

**3<sup>rd</sup> Semester (Regular) Class Test -01**

**Full Marks:** 10

**Time:** 25 minutes

Q1. What are the rules for automatic type conversion in Java? 2

Q2. How to create a two-dimensional array in Java in which the sizes of the second dimension is unequal? 4

Q3. class OpBitEquals { 4  
    public static void main(String args[]) {

```
        int a = 11;  
        int b = 3;  
        int c = 2;  
        a |= 4;  
        b >>= 1;  
        c <<= 1;  
        a ^= c;  
        System.out.println("a = " + a);  
        System.out.println("b = " + b);  
        System.out.println("c = " + c);  
    }
```

}

## OOP CT - 02



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## OOP CT - 02

Rukun Sir has written the questions on the boards, that's why i have typed the questions in note.

1) Abstract class can be\_\_\_\_\_ but can't be \_\_\_\_\_ (2 marks)

2) Partial Implementation Interface, give an example (8 marks)

