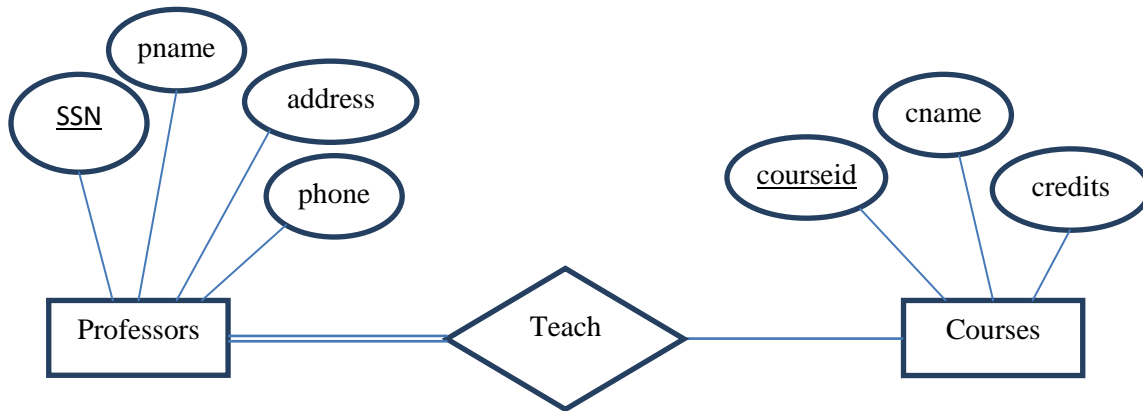
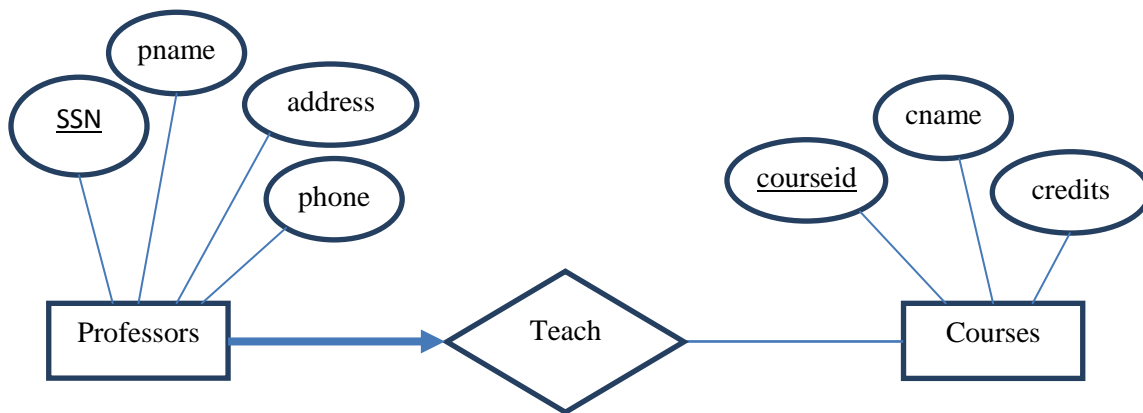


Q1.

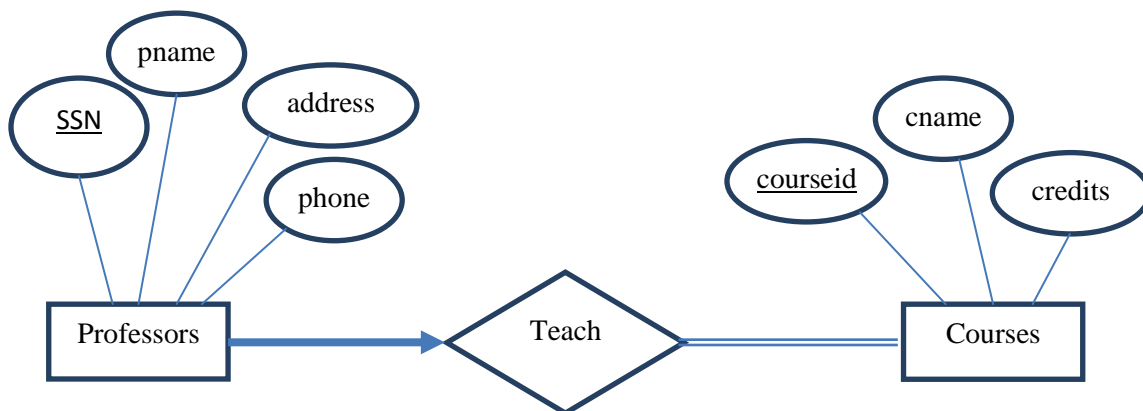
a)



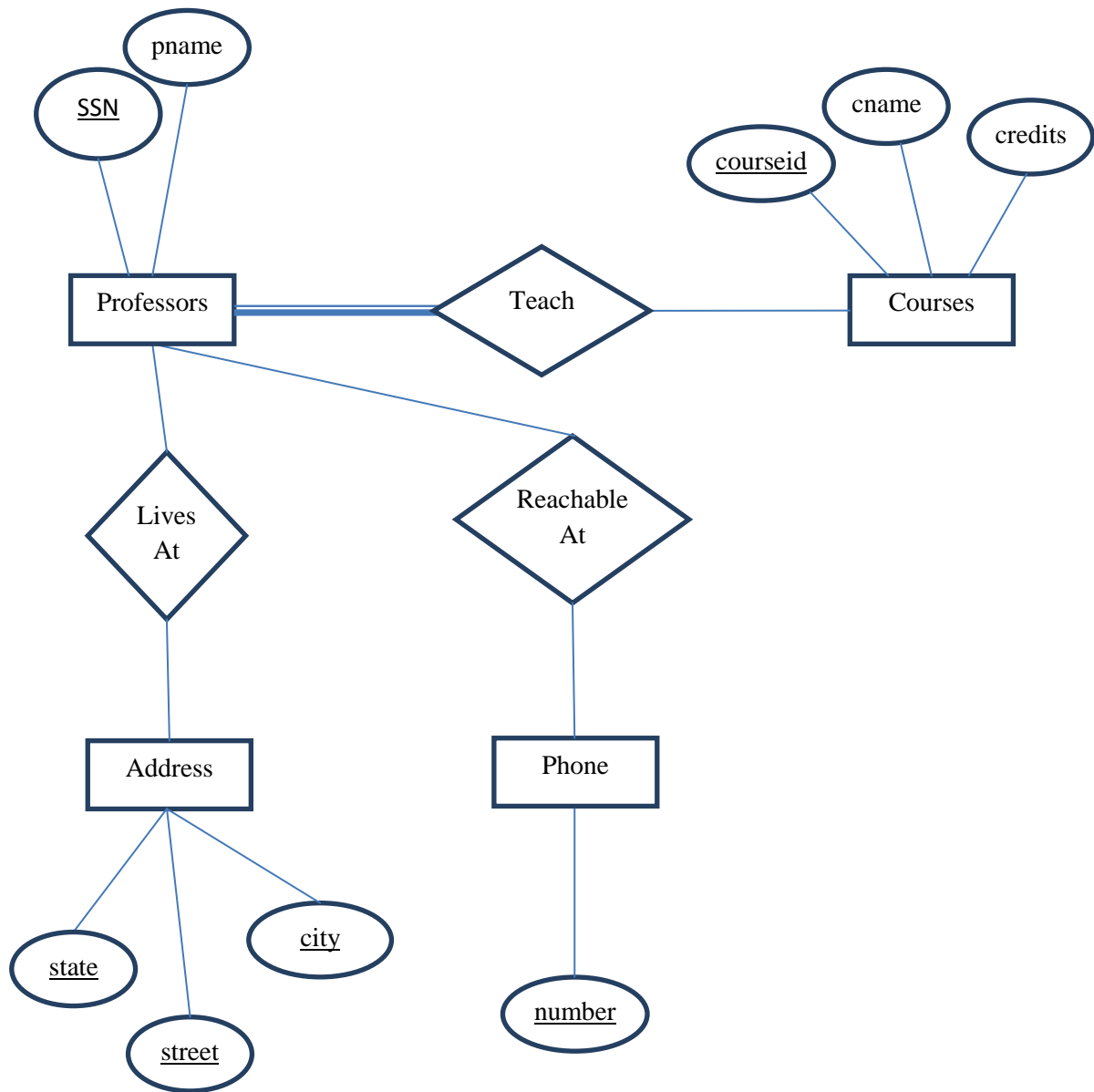
b)



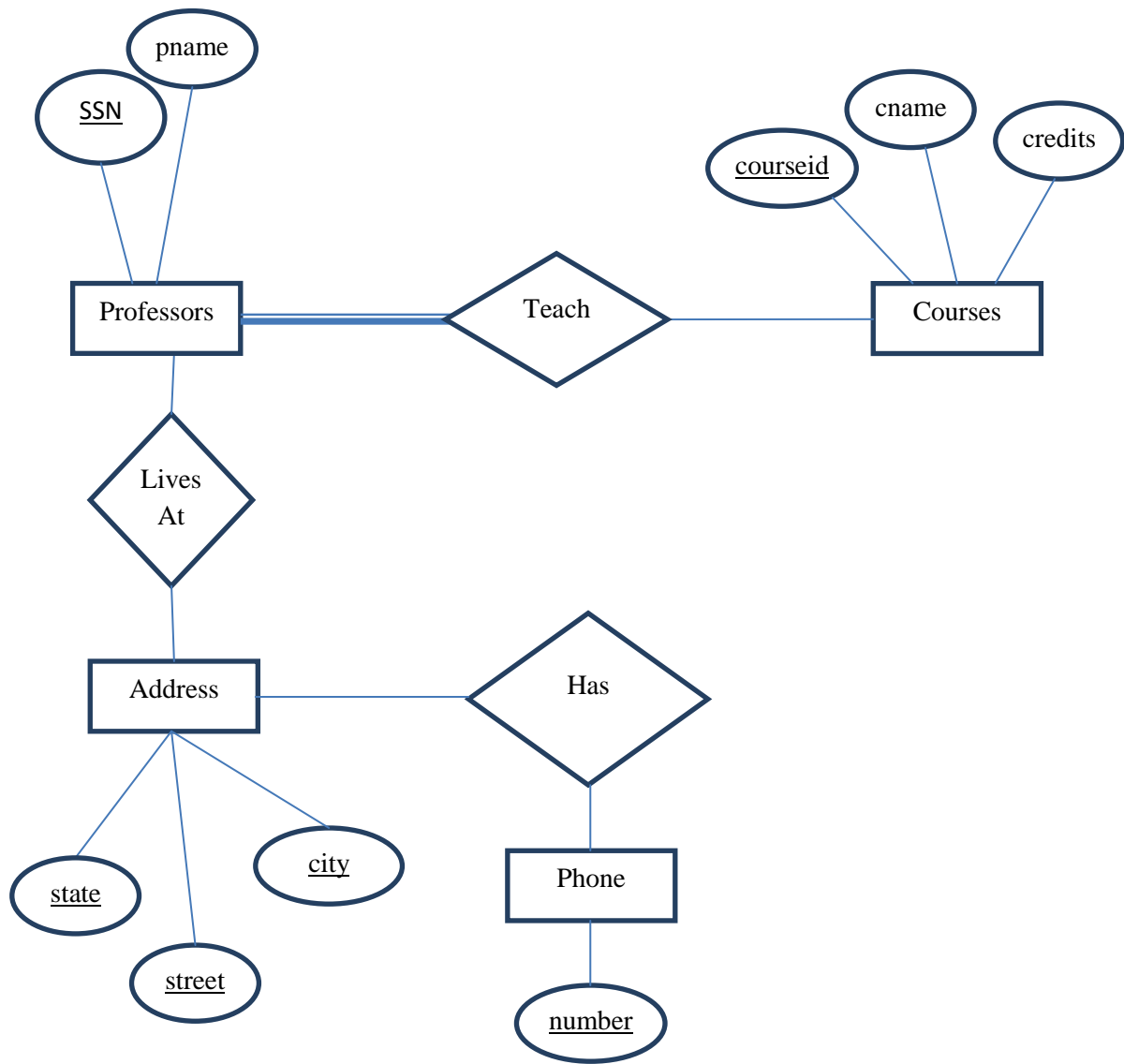
c)



d)



e)



Q2.

- a) The set with all tuples (a,b) where one or both of the conditions below are true:
 - a = 10 and b is any integer or null.
 - a is any integer or null and b = 20.
- b) The set containing exactly the tuple (10,20).
- c) The set with all tuples (a, b) where a is any integer and is not null, and b is any integer or null.
- d) The set of all tuples (a, b) where a and b are the same integer that is not null.

Q3.

a)

```
CREATE VIEW ManagerSummary(DeptName, MgrID, MgrName, MgrSalary,EmpCount) AS  
  
SELECT D.dname, D.managerid, E.ename, E.salary, COUNT(W.eid)  
  
FROM Department D, Employee E, Works W  
  
WHERE D.managerid=E.eid AND D.did=W.did  
  
GROUP BY D.did, D.dname, D.managerid, E.ename, E.salary;
```

b)

```
SELECT DISTINCT MS.MgrSalary  
  
FROM ManagerSummary MS  
  
WHERE MS.DeptName = 'Sales';
```

c)

```
SELECT TMP.MgrName  
  
FROM (SELECT MS.MgrID, MS.MgrName, SUM(EmpCount) AS TotalEmp  
  
FROM ManagerSummary MS  
  
GROUP BY MS.MgrID) TMP  
  
WHERE TMP.TotalEmp = (SELECT MAX(TotalEmp) FROM TMP);
```