# R.V. COLLEGE OF ENGINEERING
## OBSERVATION / DATA SHEET

Date _____ Name _Durgesh Kumar_____

Dept./Lab _____ Class _____ Expt./No._____
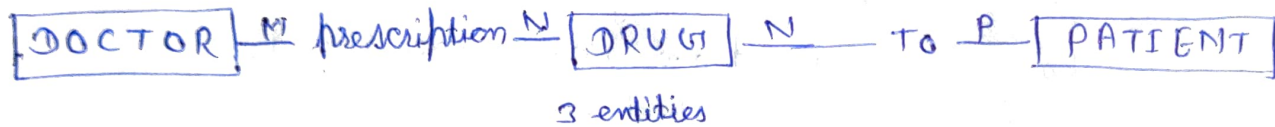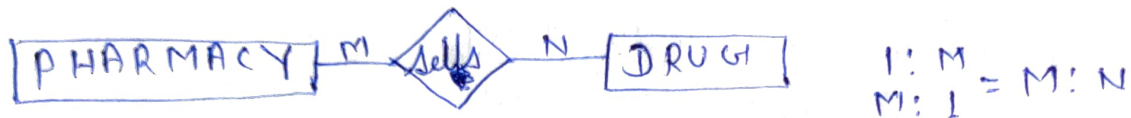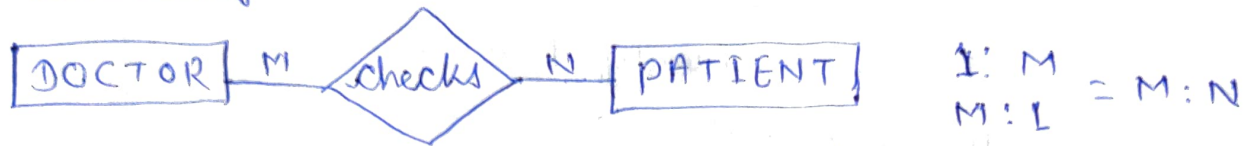
Title _____

**✗ Health care:**

patients are identified by an SSN and their names, address and ages must be recorded. Doctors are identified by an SSN. For each doctor. the name specialty and years of experience must be recorded. Each pharmaceutical company is identified by name; it has an address and one phone number. For each drug the trade name and formula must be recorded. Each drug is sold by a given pharmaceutial company. and the trade name identifies a drug uniquely from among the products of that company. Each pharmacy has a name, address and phone number. Each patient is checked up by some doctor. Every doctor has at least one patient. Each pharmacy sells several drugs and has a price for each. A drug could be could be sold at several pharmacies and the price could vary from one pharmac to another. Doctors prescribe drugs for patients. A doctor could prescribe one or more drugs for several patients and a patient could obtain prescriptions from several doctors. Each prescription has a date and quantity associated with it. Pharmaceutial companies have long-term contracts with pharmacies. A pharamaceutial company can contract with several pharmacies. for each contract with several pharmaceutial companies. For each contract you have to store a start date an end date. supervisor and the text of the contract.

**Signature of Teacher incharge**

entities and and associated attribute :

① PATIENT :- SSN, Name, Address, Age
Ⅱ DOCTOR = SSN, Name, Address speciality, YOE
Ⅲ PHARMA_COMPANY= Name, Address, phone.no
ⅳ DRUG :- Trade-Name, formula
Ⓥ PHARMACY :- Name, address, phone.no

✗ Relationship types and constraints
cordinality :-



DOCTOR —M— ⟨checks⟩ —N— PATIENT    1: M = M : N
                                    M : 1

PHARMACY —M— ⟨sells⟩ —N— DRUG    1: M = M : N
                                  M : 1

DOCTOR —M— prescription —N— DRUG —N— to —P— PATIENT
                        3 entities

PHARMA COMPANY —M— ⟨contract⟩ —N— PHARMACY   1: M
                                             M : N

PHARMA COMPANY —1— ⟨manufacture⟩ —M— DRUG   1: M = 1: M
                                            M : 1

✗ participation
① DOCTOR checks PATIENT
Ⅱ PHARMACY sells DRUG
Ⅲ DOCTOR prescriptions DRUG to PATIENT
ⅳ PHARMACOMPANY contract PHARMACY
Ⓥ PHARMA-COMPANY manufacture DRUG

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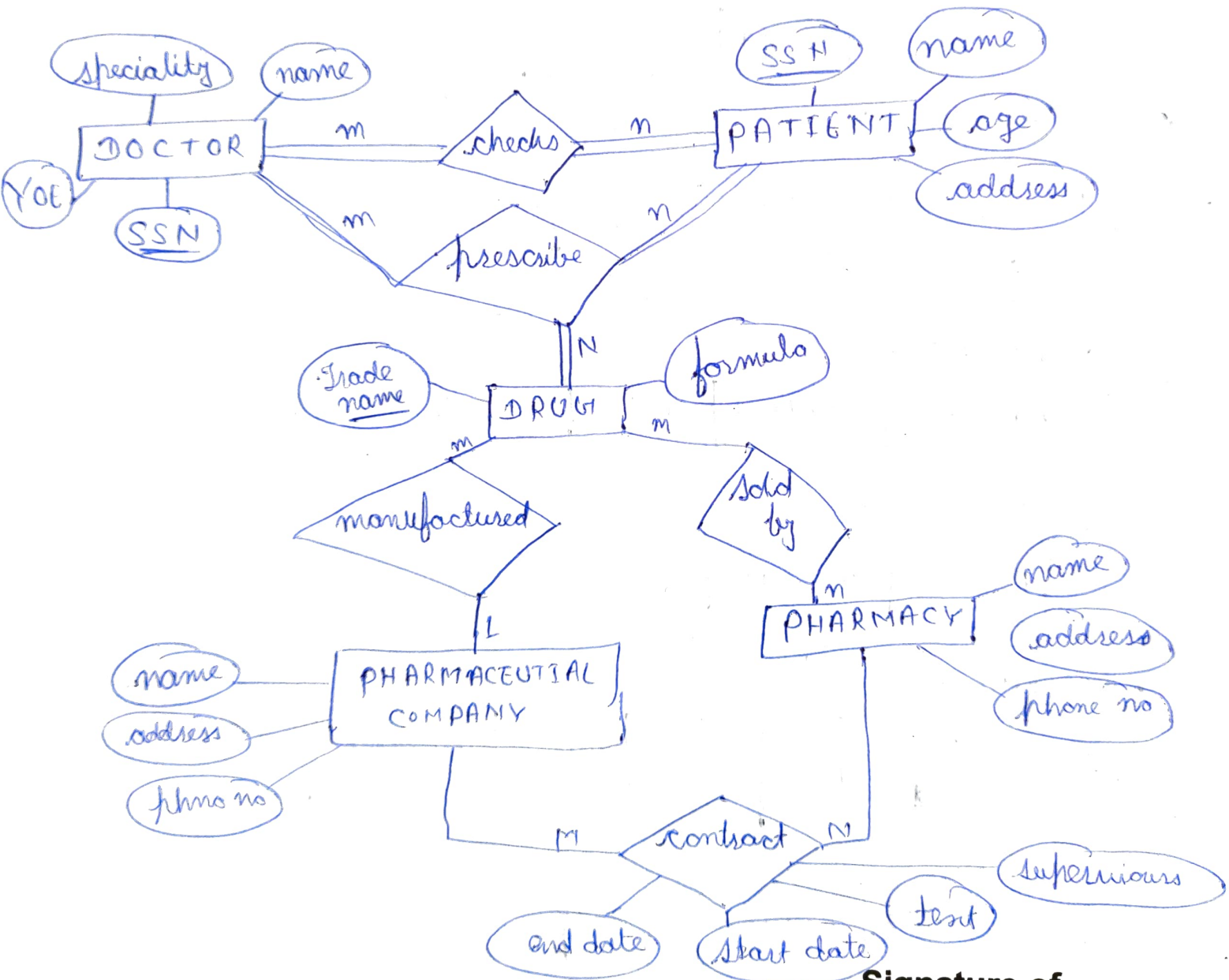## OBSERVATION / DATA SHEET

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