Question 1
Correct ER Diagram:

Grading guidelines (graders are free to deviate slightly, depending on context)
- each attribute missing : -0.5 (for each)
- forgot primary/secondary key: -1 (for each)
- forgot IS-A relationship : -2
- forgot multivalued diagnosis : -2
- forgot double lines : -1 (each)
- forgot cardinalities : -2 (each)
- forgot attends relation : -1
- made medication an attribute : -1
- missing entities/relationship : -5 (each)
- has nondoctor under person : 0

Correct Tables:
PERSON(ssn, name, address)
DOCTOR(ssn, speciality)
VISIT(ssn, date, d-ssn)  (d-ssn, date : could be a candidate key)
MEDICATION(ssn, date, name, dosage)
DIAGNOSIS(ssn, date, diagn_name)
Alternate solutions: solution#2
PERSON(ssn, name, address)
DOCTOR(ssn, speciality)
VISIT(ssn, date)
MEDICATION(ssn, date, name, dosage)
ATTENDS(d-ssn, p-ssn, date)
DIAGNOSIS(ssn, date, diagn_name)

Alternative solution #3:
DOCTOR(ssn, speciality, name, address)
PATIENT(ssn, name, address)
VISIT(ssn, date, d-ssn)
MEDICATION(ssn, date, name, dosage)
DIAGNOSIS(ssn, date, diag_name)

Grading guidelines (again, small deviations are possible):
1. Mention solution 2 is a little inefficient
2. If there are less/more tables : -5 each
3. If tables for weak relation : -2 (each)
4. If primary key is not indicated : -2 (each)
5. If primary key is wrong : -2 (each)
6. If attributes missing : -0.5 (each)
**Question 2**
Correct ER diagram

Grading guidelines:
- each attribute missing : -0.5 (for each)
- attribute in different location : -1 (for each)
- forgot primary/secondary key: -1 (for each)
- forgot IS-A relationship : -2
- forgot multivalued ‘crime’ : -2
- forgot cardinalities : -2 (each)
- made place an attribute : -3
- missing entities/relationship : -5 (each)

The student may have redundancy, storing information about other suspects in the PLACE entity. Do not deduct anything but mention that this information is implicit in the appears relationship.

Correct Tables:

CONVICT (suspect-id, name, address)
NON-CONVICT(suspect-id, employer, name, address)
CRIME(suspect-id, crime-name)
PLACE(pname)
COMMUNICATES(sus-id1, susp-id2, date, type)
APPEARS(sus-id, pname, date)
FINX(sus-id1, susp-id2, date, amount)

Alternate Solution#2

PERSON(suspect-id, name, address)
NON-CONVICT(suspect-id, employer)
CRIME(suspect-id, crime-name)
PLACE(pname)
COMMUNICATES(sus-id1, susp-id2, date, type)
APPEARS(sus-id, pname, date)
FINX(sus-id1, susp-id2, date, amount)

Grading guidelines:
1. If there are less/more tables : -5 each
2. If attributes missing : -0.5 (each)
3. If primary key not indicated : -2 (each)
4. If primary key is wrong : -(1-2) (each)