5.24

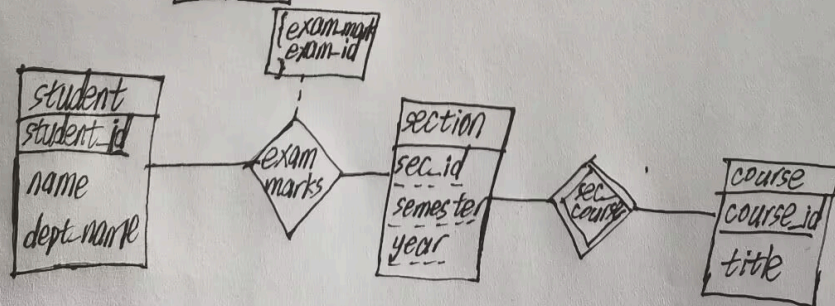|			
Garfield	359	P	/
Garfield	359	null	/
Garfield	null	null	/
painter	705	N	/
painter	705	null	/
painter	null	null	/
Saucon	550	D	/
Saucon	550	null	/
Saucon	651	N	/
Saucon	651	null	/
Saucon	null	null	2

6.1

6.2 a.

b.
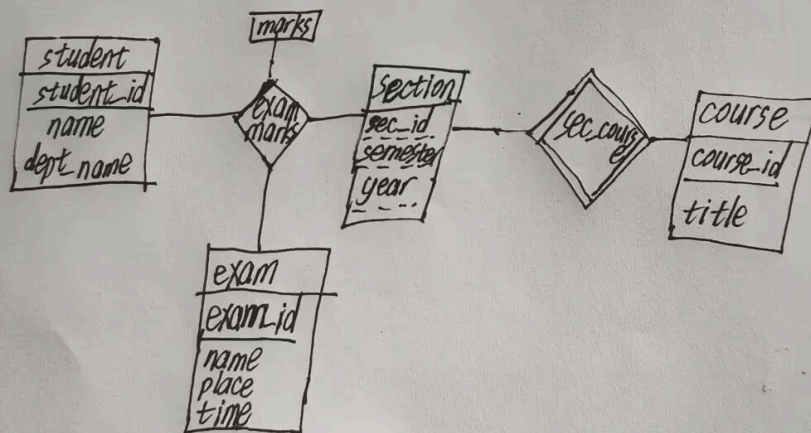
6.21 a. author(<u>name</u>, address, URL)
book(<u>ISBN</u>, title, year, price)
publisher(<u>name</u>, address, phone, URL)
customer(<u>email</u>, name, address, phone)
shopping_basket(<u>basket_id</u>)
warehouse(<u>code</u>, address, phone)

b.

c.
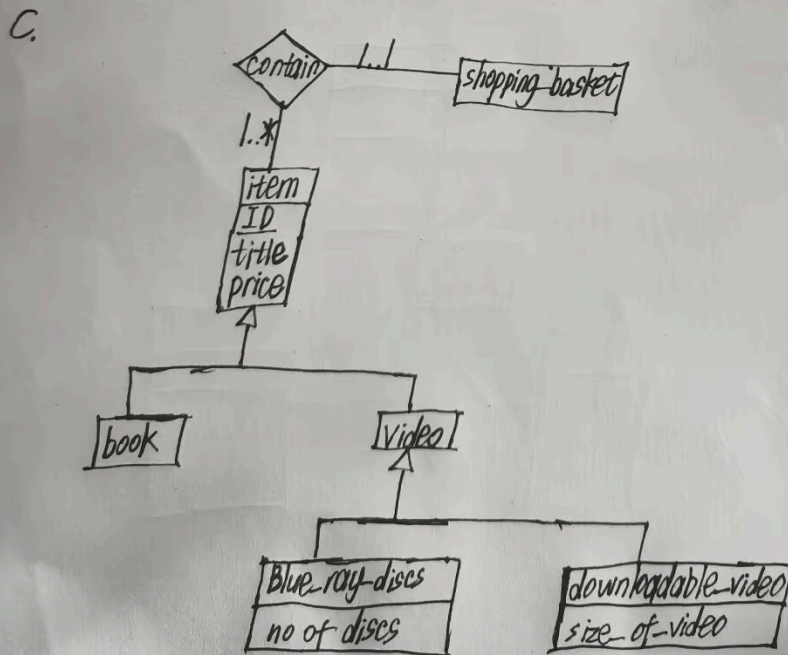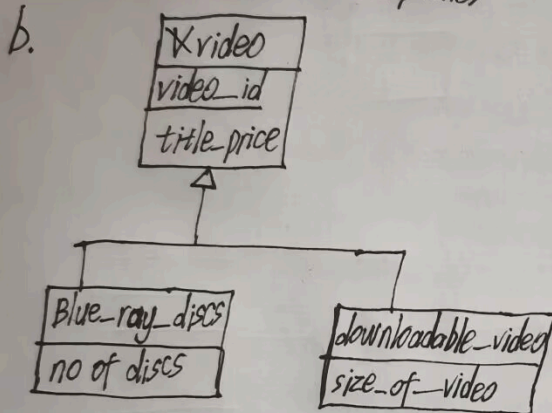
6.22 brand(name)
  model(model_id, name)
  vehicle(VIN)
  option(option_id, specification)
  customer(customer_id, name, address)

  dealer(dealer_id, name, address)
  has_models(name, model_id, foreign key name references brand,
        foreign key model_id references model)
  has_vehicles(model_id, VIN, foreign key model_id references model,
        VIN, foreign key VIN references vehicle)
  available_options(model_id, option_id, foreign key model_id references model,
        foreign key option_id references option)

  has_options(VIN, model_id, option_id, foreign key VIN references vehicle,
        foreign key(model_id, option_id) references available_options)

  has_dealer(VIN, dealer_id, foreign key VIN references vehicle,
        foreign key dealer_id references dealer)

  owned_by(VIN, customer_id, foreign key VIN references vehicle,
        foreign key customer_id references vehicle)