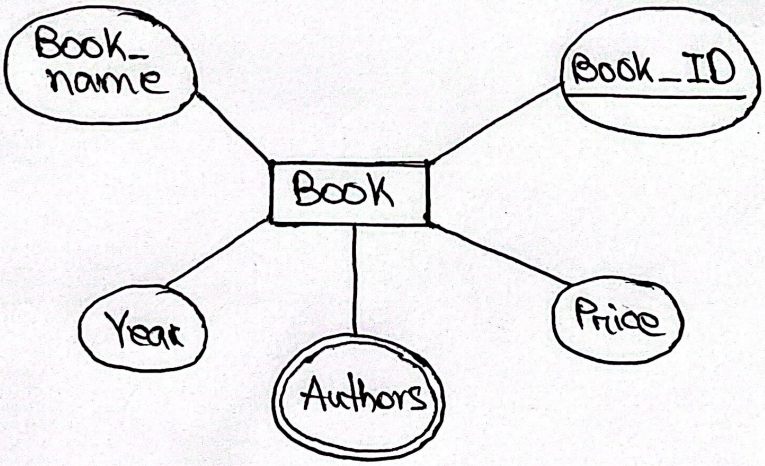
Name: Nazmul Hasan Oyon
ID: 20101528 Sec: 05

(1)

(a) True. Because those multivalued attributes can have some sub-component attributes.

(b) False. Entity type is a collection of entities having the same attributes. So, without the same attributes, there can be attributes.

(2) (a)



Simple Attribute: Book_name, Year, Price

Key Attribute: Book_ID

Multi-valued Attribute: Authors

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(b) Here entity are the all the information given in the table. For example:
Book_name The Tailsman, Authors Peter Straub, Stephen King.

Book in the entity types as all the books have same attributes (Book_name, Book_ID, Year, Price, Authors).

Book

Book_name, Book_ID, Year, Price, {Authors}

$Book_1$

(Fundamentals of DataBase Systems, 1234_A, 2005, $75, {Ramez Elmasri, Shamkant B. Navathe})

$Book_2$

(Data Communications and Networking, 3468_A, 2013, $75, {Behrouz A. Forouzan})

$Book_3$

(The Tailsman, 5876_N, 1984, $222, {Peter Straub, Stephen King})

⋮

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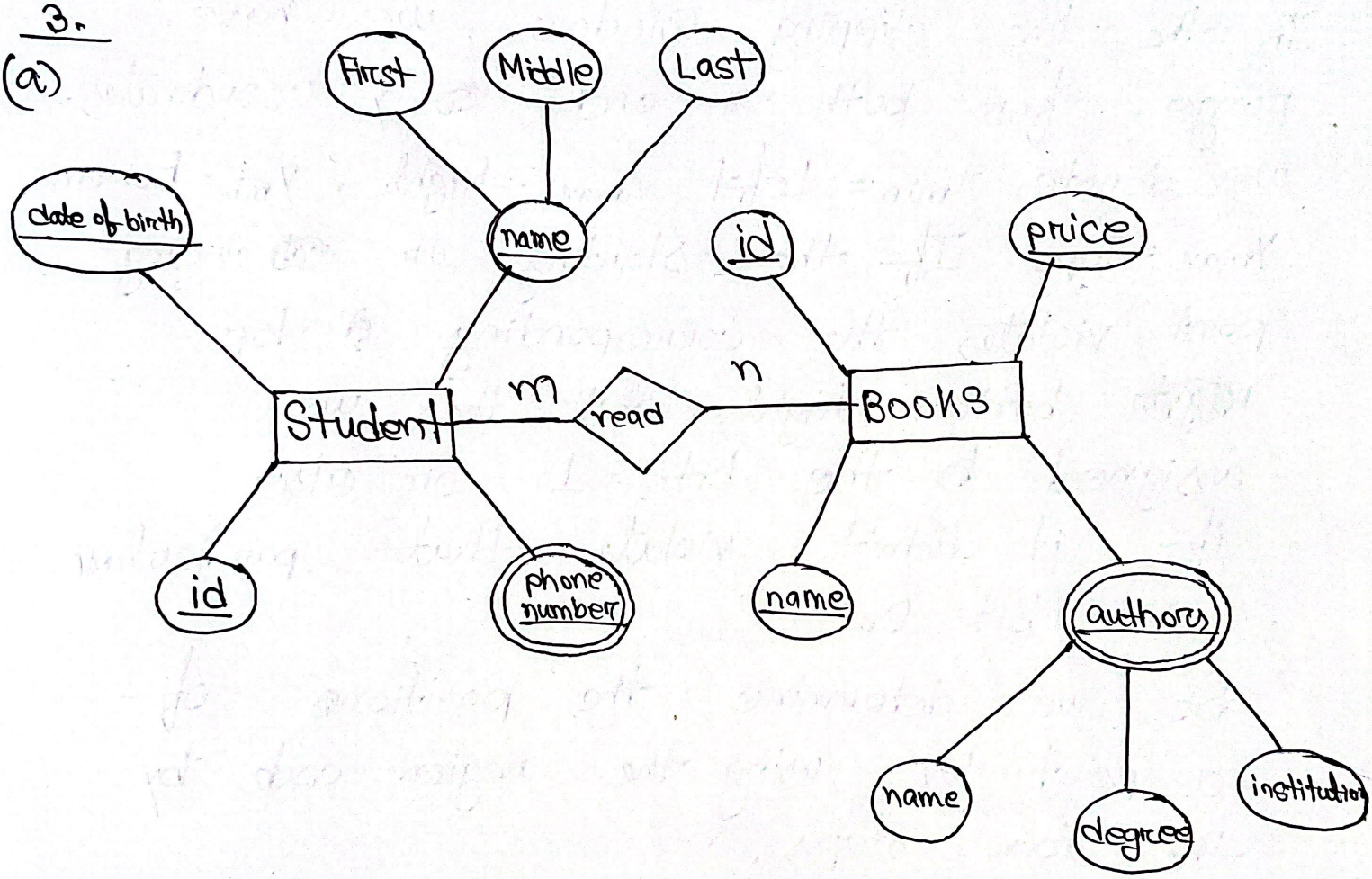
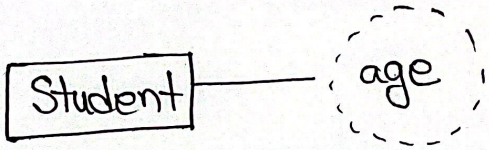
3.

(a)



(b)



Here 'age' is a derived attribute and it can be derived from student date of birth and current date.

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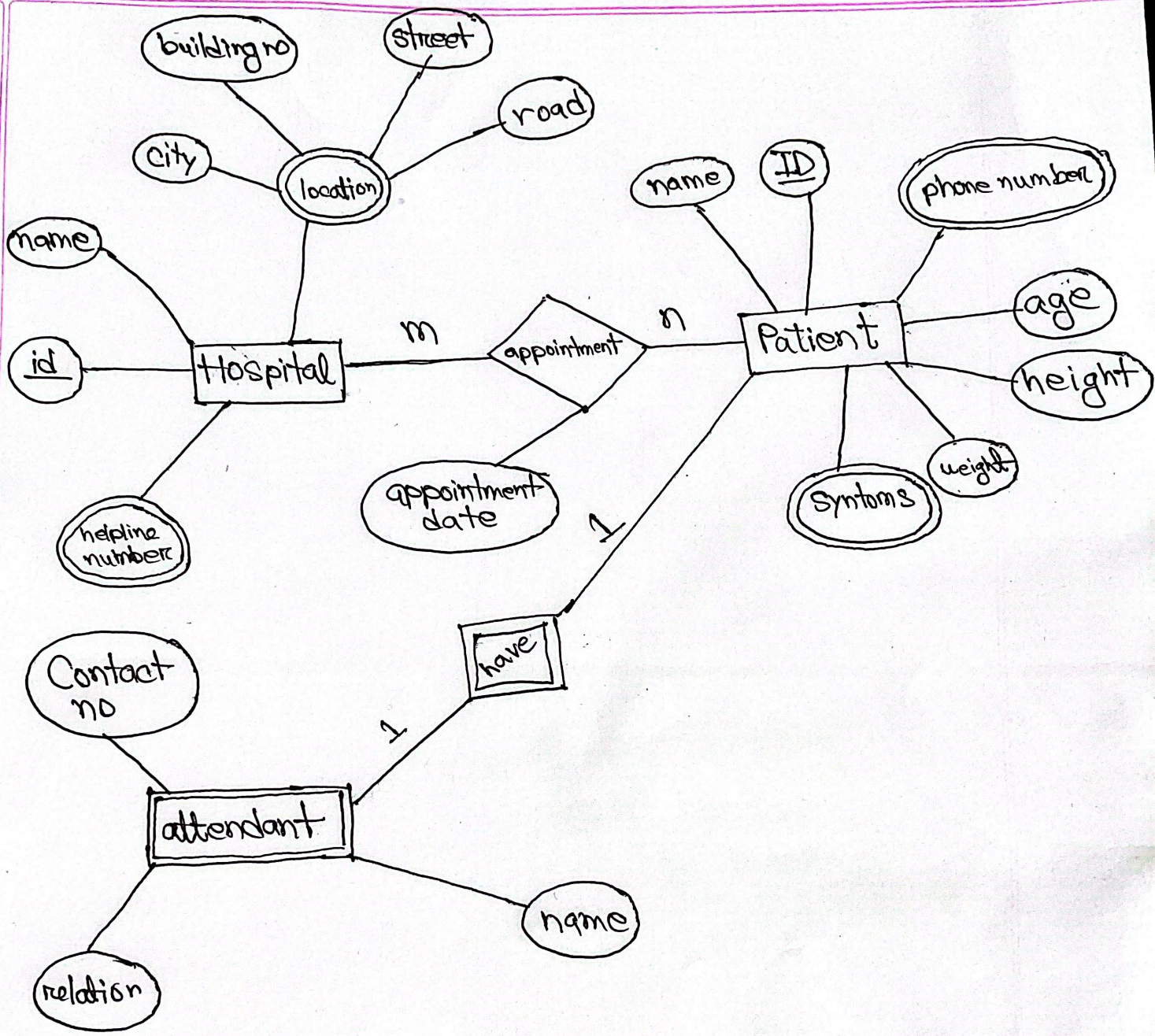
4.



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