

### Assignment #5

Due: Monday 12<sup>th</sup> of April, 2019 before 11:55 pm

Note:

1. Late submissions receive zero credit.
2. If you write only the correct answer without steps you get very low credit.
3. Submit in hard form.
4. Do not knock at the door. Just slide beneath the door.

Q:-1. Do Question 3 of the sessional exam as assignment number 5. Below please find the text of the question for your records.

1. Consider a set  $A = \{a, b, c\}$ , determine the following relations defined on the power set of  $A$

Note: first determine the power set and then you will be able to do this question.

**(3\*6 marks)**

a.  $R = \{(a, b) \mid a \cap b = \emptyset\}$

b.  $R = \{(a, b) \mid a \subseteq b\}$

c.  $R = \{(a, b) \mid a \cap b \neq \emptyset\}$

Good luck