



COMSATS University Islamabad

Attock Campus

Department of Mathematics

Quiz # 2

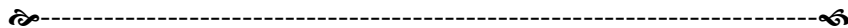
Subject: Discrete Mathematics
Class: BSM-II

Course Code: MTH211
Max. Marks: 10

Due Date: 25-11-2020 (3:00PM)

Instructions: (one must follow the instructions)

- Please name the PDF as **q2-mth211-xyz**, where xyz is last three digits of your registration number (e.g. if your registration number is **sp20-bsm-041**, then name the as **q2-mth211-041**) before submission.
- Similarity of a solution with other students may reduce your marks.
- Please make sure that the PDF is good before sending.
- Email PDF at atiq+mth211@cuiatk.edu.pk (any email address can be used for sending).
- Send email only one time.



Question

Define relation. Let S be the relation on \mathbb{N} defined by

$$4x + y = 17, \text{ i.e. } S = \{(x, y) \mid 4x + y = 17\}.$$

- Write S as a set of ordered pairs.
- Write S^{-1} as order pair.
- Write S^{-1} in algebraic form as given above.

