



COMSATS University Islamabad

Attock Campus

Department of Mathematics

Assignment # 02

Class: BSM-II
Subject: Discrete Mathematics
Instructor: Dr. Atiq ur Rehman

Due Date: 18-03-2022
Course Code: MTH211
Marks: 10

Question # 1:

Given $A = \{1, 2, 3, 4\}$ and $B = \{x, y, z\}$. Let R be the relation from A to B such that $R = \{(1, y), (1, z), (3, y), (4, x), (4, z)\}$. Then

Determine the matrix of relation.

Draw the arrow diagram of R .

Find inverse of R .

Determine domain and range of R .

Question # 2

If $Q = \{(1, 1), (2, 2), (2, 3), (3, 2), (3, 3), (4, 2), (4, 3), (4, 4)\}$ be relation on $A = \{1, 2, 3, 4\}$, then draw it directed graph.

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