



COMSATS Institute of Information Technology Attock campus

Department of Mathematics

Assignment # 02

Class: MSc-I

Subject: Set Topology

Instructor: Dr. Atiq ur Rehman

Due Date: 09-04-2018

Course Code: MTH251

Marks: 10

Question # 1

Let $X = \{1, 2, 3, 4, 5\}$. Then make five topologies on X with exactly four elements.

Question # 2

Let $X = \{1, 2, 3, 4, 5\}$ and $\tau = \{\varnothing, X, \{1\}, \{1, 2\}, \{1, 2, 3\}, \{1, 2, 3, 4\}\}$. Write the relative topology for $A = \{1, 3, 5\}$.

Academic Honesty Requirements:

You are encouraged to work with others in the completion of assignments but it doesn't include copying. However, in the spirit of Academic Honesty, which includes crediting others for their contribution to your work, please include one of the following statements with every submitted assignment on title page:

1. I worked alone on this assignment.
2. I worked with the following: List their full names. Include their relationship to you if they are not also a member of this class.