

**DEPARTMENT OF MATHEMATICS**  
**COMSATS Institute of Information Technology,**  
**Attock**

**Quiz/Assignment # 4**

**Class:** MS

**Max. Marks:** 10

**Course Title:** Fixed Point Theory and Applications

**Course Code:** MTH604

**Instructor:** Dr. Atiq ur Rehman

**Dated:** 18-04-2018 (3:00PM)

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**Question 1:**

Give the definitions of the followings.

1. Contractive operator
  2. Normed linear space
  3. Invariant point
  4. Invariant subset
  5. Compact set
  6. Convex set
  7. Starshaped set
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**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.

