

*Pray for the safety of humanity.  
Pray for all the Muslims and Pakistanis wherever they are.  
Pray for our university, staff and students.*

***Instructions:***

***This is an open-book take-home mid-term assignment, to be submitted till Monday, April 26<sup>th</sup>, 2020. You may consult the textbook, your notes, and any material posted on SIC. No other sources of information are allowed, including friends, classmates, materials from other classes, tutors, etc. Please write your solutions as clearly and neatly as possible. You will receive no credit for answers without sufficient work to produce them. Attempt all questions. Answers copied will both be marked zero. Late submission will not be accepted and marked zero.***

***How to Submit?***

- 1. Write your names and Ids at the top of answer sheet.***
- 2. Scan / Take Photo of each paper and save each photo with a number. E.g. photo of paper 1 of answer sheet be saved with name 1.jpg, then 2.jpg and so on.***
- 3. Put all answer photos in a word file by simply copy and pasting images, name the document with subject name, your name and id e.g. LA\_Ali\_12345.***
- 4. You will be provided upload link on sic to submit your answers. Go to Lectures section and click on Upload Assignment and upload your answers document file in the subject. Different formats are mentioned for uploading assignment, student can choose any one of them.***
- 5. Due date and remaining time will be shown on the same window.***

Q.No.1. Define and explain in your own words Radio Network Controller. Explain its main elements.

Q.No.2.

(a). What are the management functional areas in a Telecom Management Network.

(b). Explain how TMN is applicable in Mobile Networks.

Q.No.3. Explain Master Plan for an Information System.