King Fahd University of Petroleum and Minerals
College of Computer Sciences and Engineering
Department of Computer Engineering

COE 444 – Internetwork Design and Management (T132)

<u>**Homework # 03A**</u> (*due date & time: Wednesday 16/04/2014 during class period*)

*** Show all your work. No credit will be given if work is not shown! ***

Problem # 1 (200 points): A typical aspect of an upgrade of a network is to perform a network audit. As such, a network topology mapper can be used for this purpose. Subsequently, perform the following:

   a. **(30 points)** Survey and select 3 <u>**free**</u> network topology mapping tools. Provide proper references/citations to the 3 tools selected.
   b. **(60 points)** Identify 3 major features to be used for comparisons between the 3 tools selected in part (a). Specify why you consider these 3 features to be important for the comparison.
   c. **(30 points)** Compare between the 3 tools selected in part (a) using the 3 major features identified in part (b).
   d. **(20 points)** Based on the result of the comparison done in part (c), identify the best tool among the 3 tools selected in part (a).
   e. **(60 points)** Run the tool on the CCSE network and provide a copy of the result of the mapping.