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

COE 547/CSE 552 – Network Management (T141)

Homework # 03 (*due date & time: Wednesday 12/11/2014 during class period*)

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

Problem # 1 (5 points): Solve problem **1** from chapter 5 of the 2nd edition of the textbook.

Problem # 2 (10 points): Solve problem **3** from chapter 5 of the 2nd edition of the textbook.

Problem # 3 (10 points): Solve problem **4** from chapter 5 of the 2nd edition of the textbook.

Problem # 4 (10 points): Solve problem **5** from chapter 5 of the 2nd edition of the textbook. Note that the request was sent by the manager **after** SNMP agent was reset at midnight.

Problem # 5 (15 points): Solve problem **6** from chapter 5 of the 2nd edition of the textbook. Note that the problem should use *ifIndex* value of 3 (not *ifNumber* value of 3).

Problem # 6 (5 points): Solve problem **9** from chapter 5 of the 2nd edition of the textbook. Note that the problem should repeat Exercise **8** (not repeat Exercise 7).

Problem # 7 (15 points): Solve problem **11** from chapter 5 of the 2nd edition of the textbook.

Problem # 8 (10 points): Solve problem **12** from chapter 5 of the 2nd edition of the textbook.

Problem # 9 (20 points): Encode in TLV format the following **SNMP traffic** (Use the Hexadecimal representation):

   a. **(5 points)** The *mgmt* OID.

   b. **(5 points)** The sequence **{1.3.6.1.2.1.1.7.0, 4}** of a Variable Binding.

   c. **(10 points)** The **PDU** for **GetResponse(1.3.6.1.2.1.1.7.0 = "4")** message. Use RequestId, ErrorStatus, and ErrorIndex of 100, 0, and 0, respectively.