

IT 340 – Network Management
Assignment No. 3

Due Date: 11 December, 2016 (Sunday, 11:59 pm)
Total Marks: 10 (Final mark out of 5)

Question No. 1

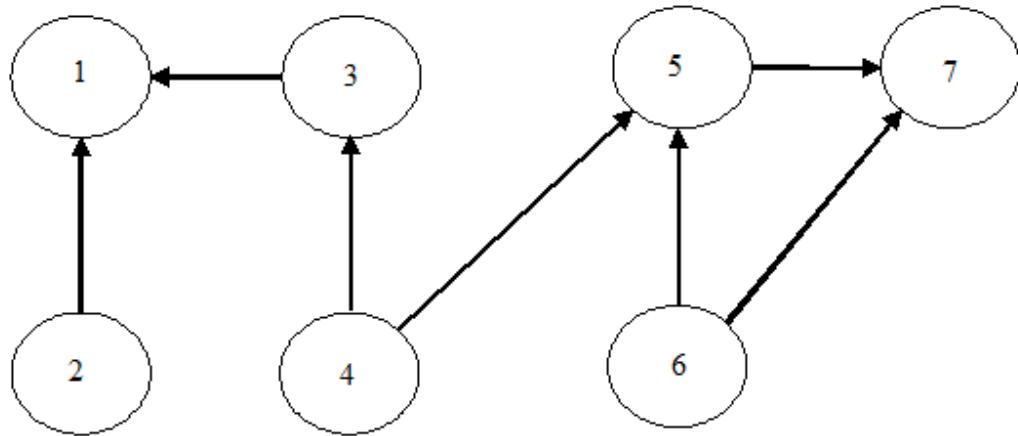
Provide at least three macro-level and three micro-level parameters to define network performance metrics. **[1 mark]**

Question No. 2

Describe how the Packet-Filtering Router filter data. **[1 mark]**

Question No. 3

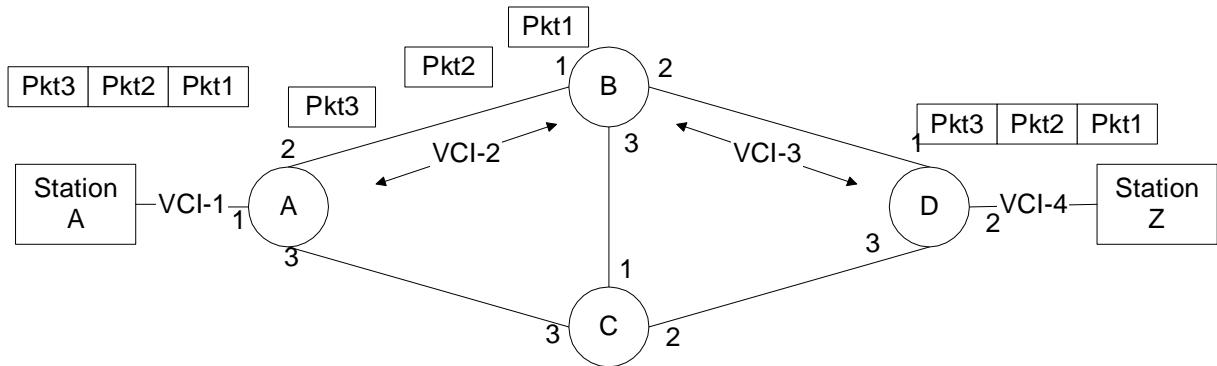
The causality graph is presented in the following figure.



- a) Draw the labeled causality graph (specifying the problems and the symptoms). **[1 mark]**
- b) Write the codebook **[1 mark]**
- c) Write the correlation matrix (reduced codebook) **[1 mark]**
- d) Draw the correlation graph **[1 mark]**

Question No. 4

The following figure describes the virtual circuit configuration. We consider only the connection between Station A and Station Z.



Complete the VC ó routing tables of B and D[2 marks]

Switch	Input VCI / Port	Output VCI / Port
A	VCI-1 / Port-1	VCI-2 / Port-2
B	VCI-1 / Port-1	VCI-2 / Port-2
D	VCI-1 / Port-1	VCI-2 / Port-2

Question No. 5

Describe the Bidirectional Forwarding Detection procedure[2 marks]

Question No. 6(Bonus Question)

Explain how does MPLS combine the richness of IP and the performance of ATM [2 marks]