

IT 340 – Network Management
Assignment No. 3

Due Date: 11December, 2016 (Sunday, 11:59 pm)

Total Marks: 10(Final mark out of 5)

Question No. 1

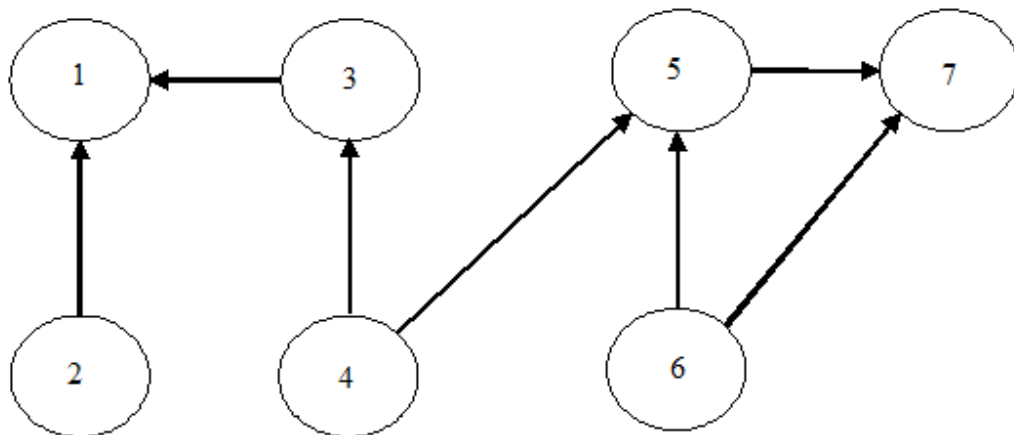
Provide at least three macro-level and three micro-level parameters to define network performance metrics.[1 mark]

Question No. 2

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

Question No. 3

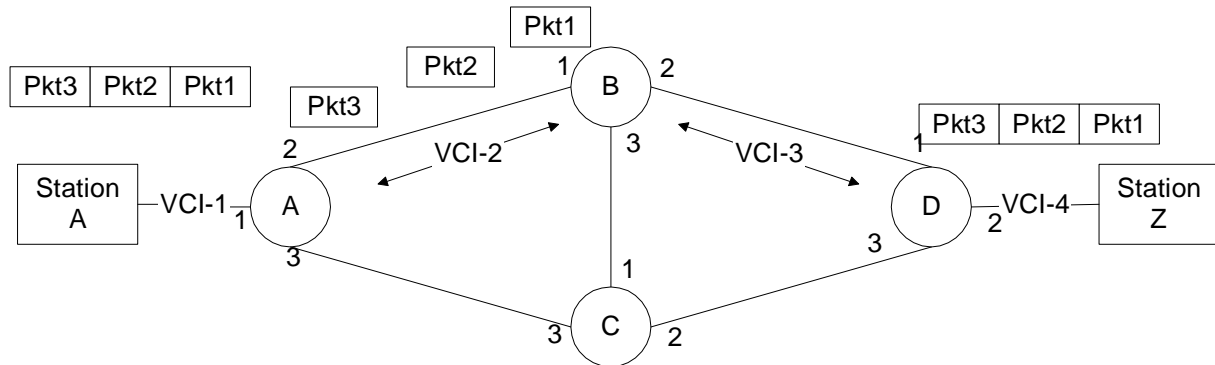
The causality graph is presented in the following figure.



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- 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- / Port-	VCI- / Port-
D	VCI- / Port-	VCI- / Port-

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]