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| EComputer Networks (BDS-7A)  Quiz 03 (Fall 2023). Instructor: Dr. Syed M. Irteza | | Name: |
| Date: 2023-10-24 | | Roll Number: |
| Total Marks: 15 | Time Allowed: 15 mins |

TimeoutInterval = EstimatedRTT + (4 \* DevRTT)

DevRTT = (1-β) \* DevRTT + β \* |SampleRTT-EstimatedRTT|

1. Suppose that the two measured SampleRTT values are 120ms and 150ms. Compute the EstimatedRTT after each of these SampleRTT values is obtained, using a value of α = 0.125 (α is the weight for SampleRTT) and assuming that the value of EstimatedRTT was 100ms just before the first of these two samples were obtained. Further, compute the TCP TimeoutInterval after each of these samples is obtained, assuming the value of DevRTT was 10ms just before the first of these two samples was obtained, and assuming a value of β = 0.25. (12m)

ERTT1=102.5

DRTT1=11.875

T1=150

ERTT2=108.4375

DRTT2=19.296875

T2=185.625

1. What is flow control, and how is it different from congestion control? (3m)