

## CSE 4805: Wireless Networks

### Quiz# 1

Total Marks: 15

A wireless LAN with three stations (A, B, C) follows the *Distributed Coordinate Function* (DCF) defined by IEEE-802.11 standard. Draw a time line diagram showing **one successful retransmission from station A to station C**.

The diagram should show transmission and reception of all the frames and the backoff process of all stations which includes the appropriate backoff slots, DIFS period and the SIFS period. Note that, the x-axis of the diagram shows time and y-axis shows one horizontal line for each station. The transmission and reception of the frames of any station should represent as void and darken rectangles respectively on the horizontal line.