# Exercises of lecture <br> Mobile Ad Hoc Networks 

Summer 2007
Sheet 9

## SECTION 1:

MANET Routing Protocols


Figure 1: AODV

1. Given a figure-1, apply Ad hoc On Demand Distance Vector (AODV) to find route from node $S$ to $D$, clearly showing Route Request (RREQ) and Route Reply (RREP). Furthermore, also indicate forward links from $S$ to $D$.

## Solutions:



Figure 2: Working of AODV


Figure 3: Working of AODV


Figure 4: DAG with destination D
2. For the Directed acyclic graph (DAG) given in figure-4, created for destination D a link between node F and G fails. Use Partial link reversal method to restore DAG for destination D, showing each intermediate steps.

## Solutions:



Figure 5: Working of partial link reversal


Figure 6: Working of partial link reversal


Figure 7: Working of partial link reversal


Figure 8: Working of partial link reversal

