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
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](image)

![Figure 6: Working of partial link reversal](image)
Figure 7: Working of partial link reversal

Figure 8: Working of partial link reversal