Question: Set up a 6-node wireless network; analyze TCP performance when nodes are static and mobile.

static and mobile. Code: 003.tcl set val(chan) Channel/WirelessChannel set val(prop) Propagation/TwoRayGround set val(netif) Phy/WirelessPhy set val(mac) Mac/802 11 set val(ifq) Queue/DropTail/PriQueue set val(ll) LL set val(ant) Antenna/OmniAntenna set val(x) 500set val(y) 500 set val(ifqlen) 50 set val(nn) 25 set val(stop) 100.0 set val(rp) AODV #set val(sc) "mob-25-50" set val(cp) "tcp-25-8" set ns [new Simulator] set tracefd [open 003.tr w] \$ns trace-all \$tracefd set namtrace [open 003.nam w] \$ns_ namtrace-all-wireless \$namtrace \$val(x) \$val(y) set prop [new \$val(prop)] set topo [new Topography] \$topo load flatgrid \$val(x) \$val(y) set god [create-god \$val(nn)] **#Node Configuration** \$ns node-config -adhocRouting \$val(rp) \ -llType \$val(ll) \ -macType \$val(mac) \ -ifqType \$val(ifq) \ -ifqLen \$val(ifqlen) \ -antType \$val(ant) \ -propType \$val(prop) \ -phyType \$val(netif) \ -channelType \$val(chan) \ -topoInstance \$topo \ -agentTrace ON \ -routerTrace ON \ -macTrace ON #Creating Nodes for $\{ \text{set i } 0 \} \{ \{ \} \} \setminus \{ \} \}$ (incr i) $\{ \} \} \in \{ \} \setminus \{ \} \in \{ \} \}$ set node (\$i) [\$ns node] \$node (\$i) random-motion 0 for $\{ \text{set i } 0 \} \{ \{ i < \{ val(nn) \} \} \}$ incr i $\} \{ \{ i < \{ val(nn) \} \} \} \}$

set xx [expr rand()*500] set yy [expr rand()*400]