

dist from;

10) Simulate simple ESS with transmitting nodes in wire- less LAN by simulation and determine the performance with transmission of packets.

```
set no [new Simulation]
set no [open 10.nam w]
$no namwrite-all-wireless $na 500 500.
set nt [open 10.tr w]
$no trace-all $nt
```

```
set topo [new Topography]
$topo load-flatgrid 500 500.
$no node-config -adhocRouting DSDV
$no node-config -llType LL
$no node-config -macType Mac/802-11
$no node-config -ifqType Queue/DropTail
$no node-config -ifqlen 50
$no node-config -phyType Phy/WirelessPhy
$no node-config -channelType Channel/WirelessChannel
```

```
$no node-config -propType Propagation/TsukubaGround
```

```
$no node-config -antType Antenna/OmniAntenna
$no node-config -topoInstance $topo
$no node-config -agentTrac ON
$no node-config -routerTrac ON
write-god 4
```

```
set no [$no node]
set n1 [$no node]
set n2 [$no node]
set n3 [$no node].
```


\$no act X-250.0
\$no act Y-250.0
\$no act Z-0.0
\$n1 act X-200.0
\$n1 act Y-250.0
\$n1 act Z-0.0
\$n2 act X-250.0
\$n2 act Y-250.0
\$n2 act Z-0.0
\$n3 act X-250.0
\$n3 act Y-250.0
\$n3 act Z-0.0.

\$no at 0.0 "\$no atdest 400.0 300.0 80.0"
\$no at 0.0 "\$n1 atdest 250.0 100.0 20.0"
\$no at 0.0 "\$n2 atdest 125.0 120.0 5.0"
\$no at 0.0 "\$n3 atdest 100.0 100.0 25.0"
act tcp1 [new Agent/tcp]
\$no attach-agent \$no \$tcp1
act tcp2 [new Agent/tcp]
\$no attach-agent \$n2 \$tcp2
act sink1 [new Agent/tcp sink]
\$no attach-agent \$n1 \$sink1
act sink2 [new Agent/tcp sink]
\$no attach-agent \$n3 \$sink2.
act cbx1 [new Application/Tdphi/cbr]
\$cbx1 attach-agent \$tcp1
act cbx2 [new Application/Tdphi/cbr]
\$cbx2 attach-agent \$tcp2
\$no connect \$tcp1 \$sink1
\$no connect \$tcp2 \$sink2.

proc End{} \$.

Sapna

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```
global no no nt
$no flush-trace
close $no
close $nt
exec nom 10. nom 8
```

g.

\$no at 0.0 "\$cbx1 start"

\$no at 0.0 "\$cbx2 start"

\$no at 10.0 "End"

\$no run

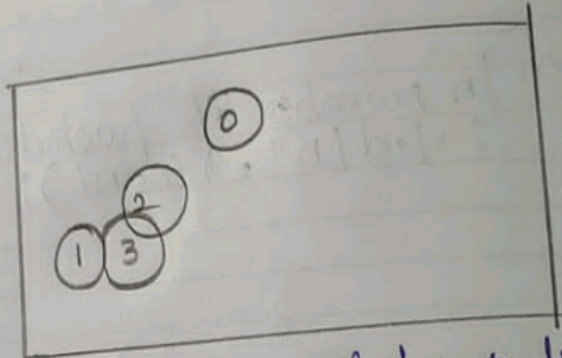
Awic

```

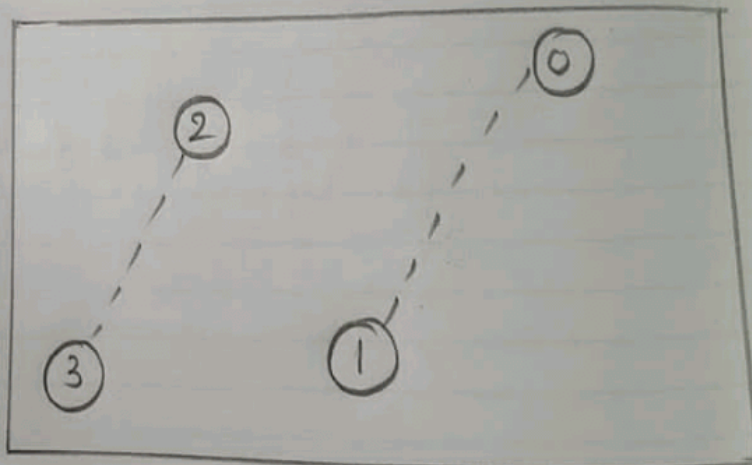
awk
BEGIN { Num_of_pkts = 0 }
{ if ($1 == "r" || $3 == "1" || $4 == "AGT" || $7 == "TCP")
  Num_of_pkts = Num_of_pkts + $8;
}
END {
  Throughput = Num_of_pkts * 8 / $2 / 100.0000;
  printf("RTT Throughput = %f bps\n", Throughput);
}

```


o/p



The transmission of packets between the nodes within the specific interval.



Simulate
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respect

set ns

set ma

\$ns no

set nt

\$ns tw

set to

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