5. Aim: contiguing RIP souting Protocol in souters RH: TO PO LOOM: 20,0.0.10 30.0.0.20 20.0.0.20 30.0.0.10 10.0.0.10 40.0.0 Se210 Fa0/0 Routes-PT Routen-PT patero Pout 28,-1 Fallo routes 1 route PC-PT Pel 40.0.01 10.0.0.1 Procedure: 1) Place 3 generic routers & 2 generic PCS in workspace 2) Connect routers & two PCS using Copper Cross more 3) Connect the routers using serial DCI with dock signalymbol 4) Place notes near PCS & soutess 5) Select 1P address of PCO & PCI as well as their subret mask & default gateway. 6) Go to CLI of souter o & enter tollowing Commands -enable - Coubig t - interbace fastether net ob - ip address 10.0.0.10 255-0.0.0 - no shut Connection should show green. Repeat for PCI & bouter 2 as well.

Connection should)x open CLI of router of lenter the following commands. (autis) # sout es sion p foodig - sout es # Mother of k 10.0.0.0 - enable contig - souter # nutures k 20000 - Contig t - interface serial 2/0 contig - souted the exit show if youte i - encapsulation PPP - dock rate 64000 was & restner by two got elevinor 20 & 30 and 30 & 40. - no shut Similation mode: Add simple PDV 1 kg troop worthing open CUI of wary started on no stable & 2019 = contig to bound 2/0 st op 039 stown 2 bound 2009 - evalob interface 20.0.20.200 25560.0.0 Notion that the Ebensive outcome: Pooling intermetion protection protections Counce thou will then green: Amount they Open ICLI sotot 2 souter 1 again: Trouter est gramo - Combig terestimas arial 3/002 100 255,0,000 was serious of - interface serial 30.0,0.10 255,0,000 was serious of - ip address \$ 30.0,0.10 - encapsulation PC> Plug 40.0.0.1 - clock sate 64000 Reguest timed out - no shut END = smit Reply Brown 400.01 1 bytes=32 Open CLI for router 2: dunit o - enable Ping statistill for 400.001: - intertace serial 2/0) = 55.0.0.0 = 102 do 100 - ip address 30.0.0.20 255.0.0.0 PC>Pind CO.0.0.1 - encapsulations. PPP & soles 58 N/60 1.0.002 pripers Park som comp. 1. but w= 32 time= 19 ms tunte ou

Now, open CLI of souter O & enter following commands: (Coutig) # noutes gimp collowing commands. d'config - sout es # network 10.0.0.0 Contig - souter # network 20.0:00 (confirst Contig - router # exit - indestace serial 2/0 show ip route En capsulation (PP Similarly repeat for router 1 & souter 2 with netwood 20 l 30 and 30 f 40. Simulation mode: Add simple PDU by selecting the PCs & click on auto Cathone from sight panel. Realtine mode: simple PCO go to command prompt and select destination address 40.0,000 Nurbbo Di Observation! Leaving outcome: Pouting intormation protocol is a protoco that routers use to exchange information of topology Course ton will the omong the network.

It is used when in place of static IP sorting because with nelp of sip protocol souting it becomes easy when large scale of souters is present ip address \$ 30.0.0.10 Pi Result: PC> Ping 40.0.01 - ENCOPENPATION Regnest timed out
Reply from 40.0.0.1! bytes = 32 time = 6 ms TTL=125 open CLI for houses 2: Reply Brown 2 times Ping statistics for 40.0.0.1: packets: Sent = 4, societed = 3, (st=1 (25% loss) 2) PC>Ping 40.0.0.1 Ringing 40.0.0.1 with 32 bytes of data

Reply from 400.0.1: bytes=32 time=19ms TTL=125

ping statistics bos 40.0.0.1:

packets: sent = 4, Received = 4, lost = 0 (0.1. loss)

Approximate round tip times in milli-seconds:

Minimum = 2 ms, maximum = 19 ms, Average = 10 ms