PRACTICAL 1

A) CONFIGURING OSPF

R1 R2 R3 🡪CLI

Router ospf 1 Router ospf 2 Router ospf 3

Network 192.168.1.0 0.0.0.255 area 0

Network 10.1.1.0 0.0.0.3 area 0

B) MD5 Authentication

Router ospf 1 router ospf 2 router ospf 3

Area 0 authentication message-digest

Interface s0/0/0

Ip ospf message-digest-key 1 md5 MD5pa55

R1 R2 R3 🡪 show ip ospf interface

C) NTP Configuration

PC A 🡪 NTP 🡪 Enable 🡪 key 1 🡪 password: NTPpa55

Choose current date & time different from current

R1 R2 R3 🡪CLI

Ntp server 192.168.1.5

Ntp update-calendar

Ntp authenticate

Ntp trusted-key

Ntp authentication-key 1 md5 NTPpa55

Service timestamps log datetime msec

PC B 🡪 Syslog 🡪Enable -🡪R! R2 R3 Cli

logging host 192.168.1.6

output:- R1 R2 R3 🡪 Cli 🡪 show logging

d) Configure SSH Connections

R3🡪CLI

ip domain-name ccnasecurity.com

usrename SSHadmin privilege 15 secret ciscosshpa55

line vty 0 4

login local

transport input ssh

crypto key zeroize rsa

crypto key generate rsa

get out of configuration mode🡪 show ip ssh

go to configuration mode 🡪

conf t

ip ssh time-out 90

ip ssh authentication-retries 2

ip ssh version 2

get out of configuration mode🡪 show ip ssh

PC C🡪 cmd🡪telnet 192.168.3.1

Ssh -1 SSHadmin 192.168.3.1 password ciscosshpa55

Show ip ssh

Connecting R2 with R3 🡪Cli 🡪ssh -v 2 -1 SSHadmin 10.2.2.1