# CCNA2 SKILL BASED TEST (Form A)
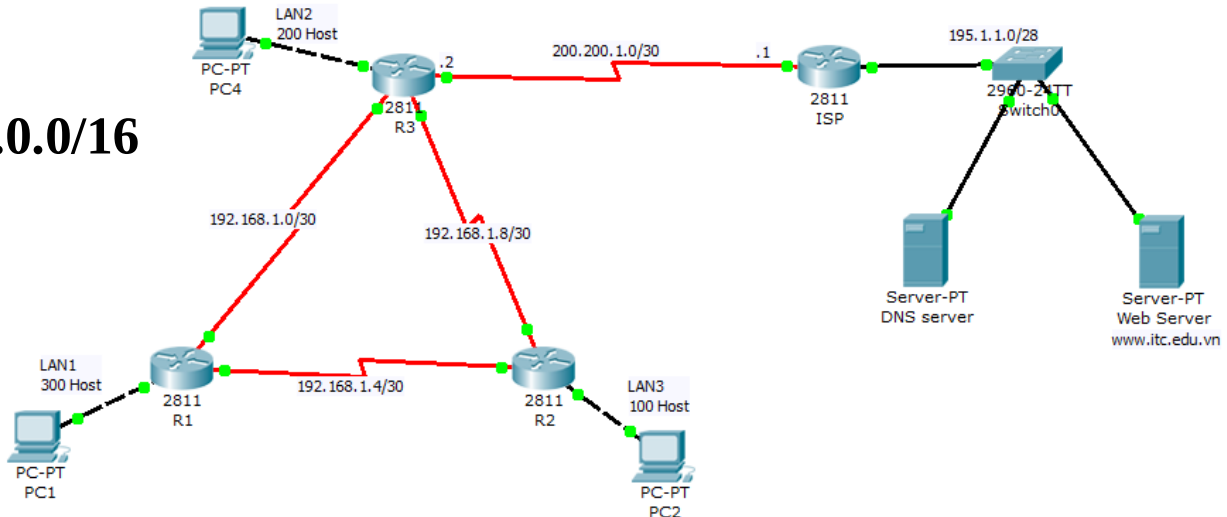# DURATION : 80 MINUTES
# No documents allowed



## Requirements :
## Part I: ( 55 mark )
1     1. Cabling as the diagram (5 mark)
2     2. Calculating all the subnets for the diagram. (10 mark)

*Note: 172.X.0.0/16 where X is the sequence number in the students list.*

1     3. Basic router config for R1, R2, R3 and ISP: (5mark)
0     - Password for console=cisco .
1     - Password for enable mode=ccna
1     - Password for vty =class
2     4. Install OSPF as the routing protocol on R1,R2 and R3. DO NOT advertise all subnets to the ISP router: process number = 10, area number=0 ) (25 mark)
3     5. Configure the static route on R1,R2 and R3 for the Internet connection (10 mark)

## Part II: ( 25 mark )
1     1. Write down the router ID of R1,R2 and R3 ? (5 mark)
2     2. Find the path from R3 to LAN2 and its metric. Explain how R3 calculate this metric. ( 10 mark)
3     3. Configure the bandwidth for R1-R3 connection as 64 kbps. Find the path from R3 to LAN2 and its metric. Explain how R3 choose that route. (10 mark)

## Challenge questions: (20 marks)

1. The company needs a **minimum of 300 sub-networks** and a **maximum of 50 host addresses per subnet**. Working with only one Class B address, which of the following subnet masks will support an appropriate addressing scheme? (Choose two.)  (5 mark)

       A. 255.255.255.0
       B. 255.255.255.128
       C. 255.255.252.0

D. 255.255.255.224
E. 255.255.255.192
F. 255.255.248.0

2. Given the address **192.168.50.19/28**, which of the following are **valid host addresses** on this subnet? (Choose two.) (5 mark)

A. 192.168.50.30
B. 192.168.50.16
C. 192.168.50.18
D. 192.168.50.31
E. 192.168.50.0
F. 192.168.50.32

1      3. Given a subnet mask of 255.255.255.224, which of the following addresses can be assigned to network hosts? (Choose three.) (10 mark)

A. 16.234.119.63
B. 95.119.178.93
C. 202.45.118.159
D. 195.168.16.87
E. 134.178.18.56
F. 219.63.123.192
G. 192.168.100.0