Name:	Group:		Note:	
	Ex	am		
MCQs (7.5 points,	-0.5 for incorrect answer):			
Configure an ACL	configuration option for remo- and apply it to the VTY lines  Configure Te		a network device? ☐ Configure 802.1x	
ip route 0.0.0.0 255	ows a correctly configured IPv 5.255.255.0 S0/0/0  ip rou	te 0.0.0.0 0.0		
- Which option ship route 0.0.0.0 255		te 0.0.0.0 0.0		
- Which option ship route 0.0.0.0 255	5.255.255.0 S0/0/0	te 0.0.0.0 0.0 0/0	0.0.0 S0/0/0	nify?
- Which option ship route 0.0.0.0 255	5.255.255.0 S0/0/0	te 0.0.0.0 0.0 0/0 3 10, What	0.0.0 S0/0/0  a does the number <b>10</b> sign	nify?
- Which option ship route 0.0.0.0 255	5.255.255.0 S0/0/0	te 0.0.0.0 0.0 0/0 3 10, What the 192.168.	0.0.0 S0/0/0  a does the number <b>10</b> sign	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface	5.255.255.0 S0/0/0	te 0.0.0.0 0.0 0/0 3 10, What the 192.168.	0.0.0 S0/0/0  a does the number <b>10</b> sign	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface  metric	5.255.255.0 S0/0/0	te 0.0.0.0 0.0 0/0 3 10, What the 192.168.	0.0.0 S0/0/0  a does the number <b>10</b> sign	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface  metric	5.255.255.0 S0/0/0 ☐ ip rout ip route 0.0.0.0 255.0.0.0 S0/0 3.10.0 255.255.255.0 173.1.1.2 maximum number of hops to to ☐administrative distance	te 0.0.0.0 0.0 0/0 3 10, What the 192.168.	0.0.0 S0/0/0 s does the number <b>10</b> sign 10.0/24  Next hop	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface metric - Identify the poss Type C	ip route 0.0.0.0 255.0.0.0 S0/0/0  ip route 0.0.0.0 255.0.0.0 S0/0/0  3.10.0 255.255.255.0 173.1.1.3  maximum number of hops to to administrative distance ible routes that can be summar Network 10.0.2.132	te 0.0.0.0 0.0 0/0 3 10, What the 192.168.	0.0.0 S0/0/0 t does the number 10 sign 10.0/24    Next hop   10.0.2.134	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface metric - Identify the poss  Type  C  C	5.255.255.0 S0/0/0 ☐ ip rout ip route 0.0.0.0 255.0.0.0 S0/0  3.10.0 255.255.255.0 173.1.1.3  maximum number of hops to to administrative distance  ible routes that can be summar  Network  10.0.2.132  10.0.0.0	te 0.0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Next hop 10.0.2.134 10.0.0.1	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface metric - Identify the poss  Type C C C C	ip route 0.0.0.0 255.0.0.0 S0/0  3.10.0 255.255.255.0 173.1.1.3 maximum number of hops to the administrative distance ible routes that can be summar Network 10.0.2.132 10.0.0.0 10.0.1.0	te 0.0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.0.0 S0/0/0  does the number 10 sign 10.0/24    Next hop	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface metric - Identify the poss  Type  C  C  C  C	ip route 0.0.0.0 255.0.0.0 S0/0  ip route 0.0.0.0 255.0.0.0 S0/0  3.10.0 255.255.255.0 173.1.1.3  maximum number of hops to to administrative distance    Network   10.0.2.132   10.0.0.0   10.0.1.0   10.0.2.0	te 0.0.0.0 0.0 0/0 3 10, What the 192.168. 2 /30 /24 /24 /25	Next hop 10.0.2.134 10.0.1.1 10.0.2.133	nify?
- Which option ship route 0.0.0.0 255 - ip route 192.168 exit interface metric - Identify the poss  Type  C  C  C	ip route 0.0.0.0 255.0.0.0 S0/0  3.10.0 255.255.255.0 173.1.1.3 maximum number of hops to the administrative distance ible routes that can be summar Network 10.0.2.132 10.0.0.0 10.0.1.0	te 0.0.0.0 0.0 0/0 3 10, What the 192.168. 2 /30 /24 /24 /25	0.0.0 S0/0/0  does the number 10 sign 10.0/24    Next hop	nify?
- Which option ship route 0.0.0.0 255  - ip route 192.168 exit interface metric  - Identify the poss  Type C C C C S S S  - When configuring highlighted by a lidentifies the state of the	ip route 0.0.0.0 255.0.0.0 S0/0  ip route 0.0.0.0 255.0.0.0 S0/0  3.10.0 255.255.255.0 173.1.1.3  maximum number of hops to to administrative distance    Network   10.0.2.132   10.0.0.0   10.0.1.0   10.0.2.0   10.0.2.128  g inter-vlan routing, we use er question mark? It subinterface	te 0.0.0 0.0 0/0 3 10, What the 192.168. 2 /30 /24 /24 /25 8 /30  heapsulation dentifies the	Next hop 10.0.2.134 10.0.2.133 10.0.2.133	ne missing paran
- Which option ship route 0.0.0.0 255  - ip route 192.168 exit interface metric  - Identify the poss  Type C C C S S S  - When configuring highlighted by a lidentifies the second lidentifies lidentifies the second lidentifies the second lidentifies the second lidentifies the second lidentifies lidentifies the second lidentifies lidentifies the second lidentifies li	ip route 0.0.0.0 255.0.0.0 S0/0  ip route 0.0.0.0 255.0.0.0 S0/0  3.10.0 255.255.255.0 173.1.1.3  maximum number of hops to to administrative distance    Network   10.0.2.132   10.0.0.0   10.0.1.0   10.0.2.0   10.0.2.128  g inter-vlan routing, we use er question mark? It subinterface	te 0.0.0 0.0 0/0 3 10, What the 192.168. 2 /30 /24 /24 /25 3 /30  heapsulation dentifies the dentifi	Next hop 10.0.2.134 10.0.2.133 10.0.2.133 10.0.2.133  ndot1q? What is the VLAN number	ne missing paran

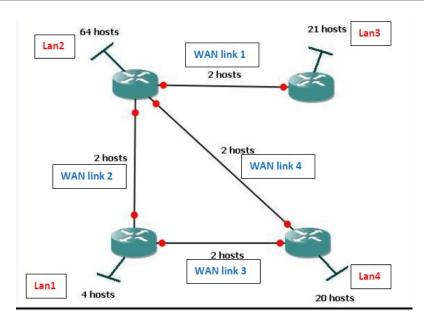
9. What is the Administrative Distance for External EIGRP Routes?

Dep of Networks and Telecommunications Responsable of module : Dr MELLAL				Module IP Routing	M1 2023/2024
□ 1	□ 90	□ 170	□255		
10. ISIS	. are simila	r ABR in O	SPF?		
□ I 1 routers	□ I 2 ₁	outers	□ I 1/I 2 route	All answers are true	

## Exercise 2(4points): complete the table bellow

Protocol	RIP	OSPF	EIGRP	IS-IS
AD	120	110	90-170	115
maximum routers in the network.	15	unlimited	255	unlimited
metric	Hop Count	bandwidth	bandwidth and delay	Default     Metric: every     interface has a     default metric     of 10.      Delay: similar     to how EIGRP     uses delay.      Expense: the     actual     monetary cost     of a link.      Error: similar     to how EIGRP     uses reliability.
Algorithm	RIP works on Bellman Ford algorithm.	OSPF works on DIJKSTRA Algorithm.	DUAL algorithm	DIJKSTRA Algorithm.
Protocol type	Distance vector	Link State	Both	Link State
Ewansias 01.				

## Exercise 01:



X

- 1. How many networks in the figure? 8
- 2. Identify stub routers and stub networks. 4 stub networks and 1 stub router (R1)
- 3. Usin R2 address 10.23.22.0/24, determine the class of this network
- 4. Order the networks from the largest size to the smallest
- 5. Using subnet masks with variable length (VLSM) propose an addressing plan for the networks using the table bellow (starting from the biggest network to the smallest).

Network	Net@	Mask	Broadcast @	Number of hosts	Hosts @ range
				per subnet	