642-902 Q&As

Implementing cisco ip routing

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QUESTION 1

Refer to the exhibit.

Which statement is true?

A. Router RAR1 will accept only route 10.10.0.0/19 from its BGP neighbor.

B. Router RAR1 will send only route 10.10.0.0/19 to its BGP neighbor.

C. Only traffic with a destination from 10.10.0.0/19 will be permitted.

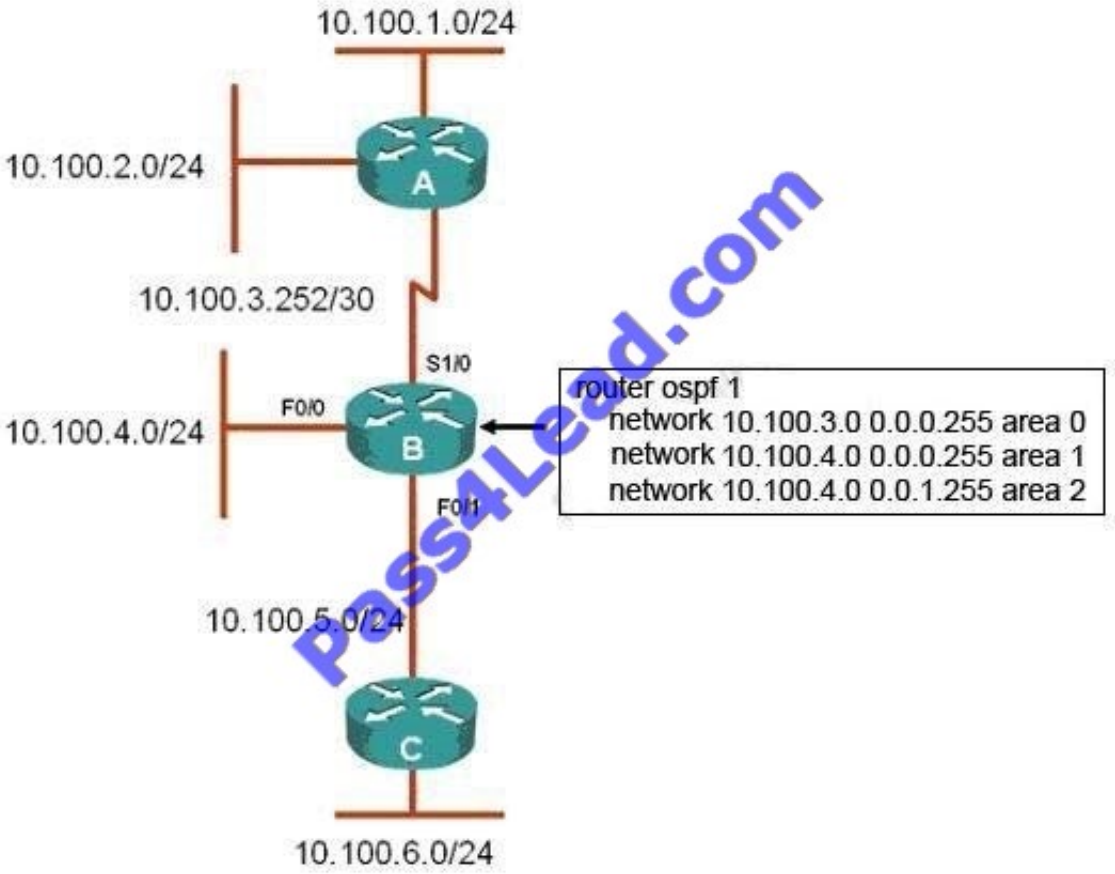
D. Only traffic going to 10.10.0.0/19 will be permitted.

Correct Answer: A

Wild card mask for /19 is 0.0.31.255. We can see that there is distributed list inbound used to filter routers from BGP neighbor. Distribute list is linked with extend ACL No. 101, which statement permits network 10.10.0.0/19 and denies all other networks, that comes from implicit deny rule at the end of any access list.

QUESTION 2

Refer to the exhibit.



What is the effect of the OSPF configuration on router B?

A. All interfaces will be in area 0.

B. The router will be an ABR with s1/0 in area 0 and f0/0 and 0/1 in area 1.

C. The router will be an ABR with s1/0 in area 0 and f0/0 and 0/1 in area 2.

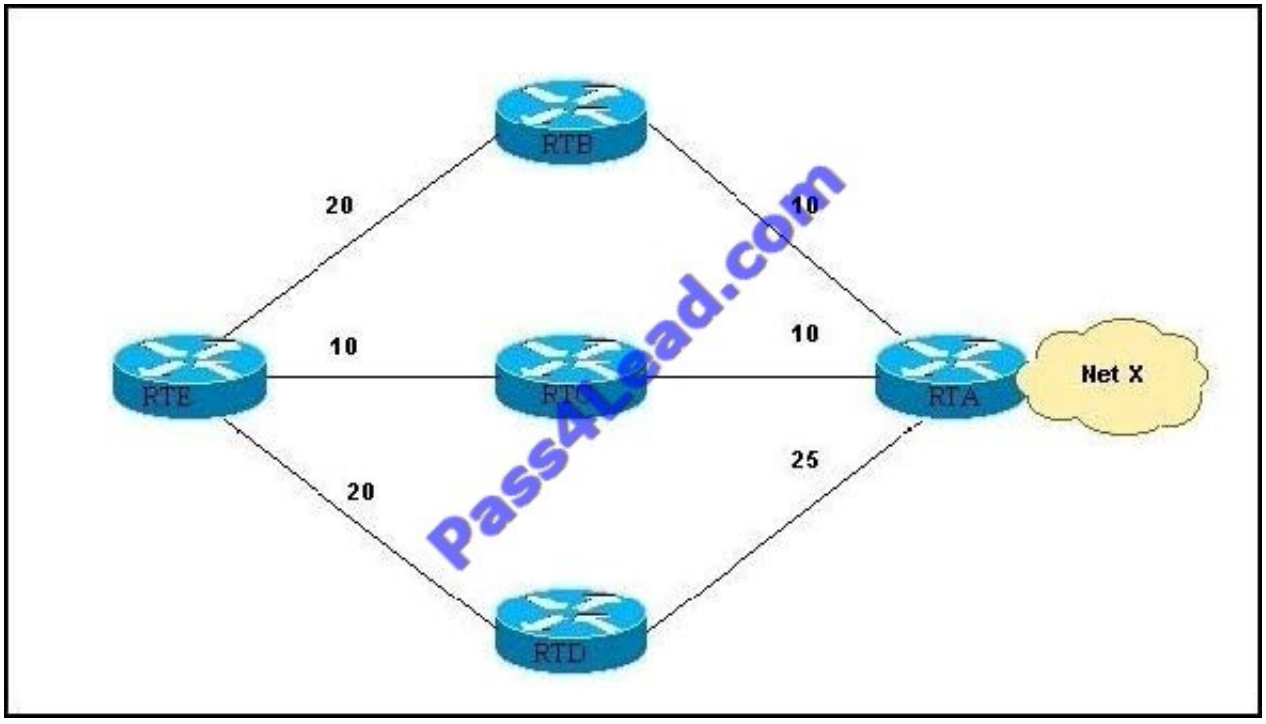
D. The router will be an ABR with s1/0 in area 0, f0/0 in area 1, and f0/1 in area 2.

Correct Answer: D

Reference: https://www.google.com/url?
sa=tandrct=jandq=andesrc=sandsource=webandcd=4andcad=rjaandved=0CEIQFjADandurl=https%3A
%2F%2Flearningnetwork.cisco.com%2Fservlet%2FJiveServlet% 2Fdownload%2F4907- 2332%2FCase%2520..andei=
sU-rUeGvFIanhAfRIHwDQandusg=AFQjCNH4zqER_WNMrHEY2VhuMzDTy7D1xQandsig2=v1xlJWspSrBE6sz
oQAP8cgandbvm=bv.47244034,d.ZG4

QUESTION 3

Observe the exhibit.



If the command variance 3 were added to RTE, which path or paths would be chosen to route traffic to network X?

A. E-B-A

B. E-B-A and E-C-A

C. E-C-A and E-D-A

D. E-B-A, E-C-A and E-D-A

Correct Answer: B

Advertised distance of RTD is greater than FD of RTE-RTC-RTA, so the route through D will not be used.

QUESTION 4

Which attribute must exist in the BGP update packet?

A. LOCAL_ PREF

B. AGGREGATOR

C. AS_Path

D. Weight

Correct Answer: C

Origin, AS_Path, Next_Hop are well-known mandatory BGP attributes that all BGP Updates must include.

Note: There are 4 BGP attribute types:

+ Well-known Mandatory: recognized by all implementations of BGP and must appear in a BGP update message. If missing, a notification error will be generated. + Well-Known Discretionary: recognized by all implementations of BGP but may not be sent in the BGP update message (include LOCAL_PREF, ATOMIC_AGGREGATOR). + Optional Transitive: may or may not be recognized by all BGP implementations. Because the attribute is transitive, BGP accepts and advertises the attribute even if it is not recognized (include Community attribte). + Optional Nontransitive: may or may not be recognized by all BGP implementations. Whether or not the receiving BGP router recognizes the attribute, it is nontransitive and is not passed along to other BGP peers (include MED).

QUESTION 5

Refer to the exhibit.

```
<output omitted>
!
router ospf 10
  redistribute rip route-map rip-in
!
<output omitted>
!
route-map rip-in permit 10
 match ip address 10 20
 set metric 100
 set metric-type type-1
 route-map rip-in deny 20
 match ip address 30
route-map rip-in permit 30
 set metric 200
 set metric-type type-2
!
access-list 10 permit 10.0.10.0 0.0.0.255
access-list 20 permit 192.168.1.0 0.0.0.255
access-list 30 permit 10.0.0.0 0.255.255.255
```

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Which two statements are correct regarding the routes to be redistributed into OSPF? (Choose two.)

A. The network 192.168.1.0 will be allowed and assigned a metric of 100.

B. The network 192.168.1.0 will be allowed and assigned a metric of 200.

C. All networks except 10.0.0.0/8 will be allowed and assigned a metric of 200.

D. The network 172.16.0.0/16 will be allowed and assigned a metric of 200.

E. The network 10.0.10.0/24 will be allowed and assigned a metric of 200.

Correct Answer: AD

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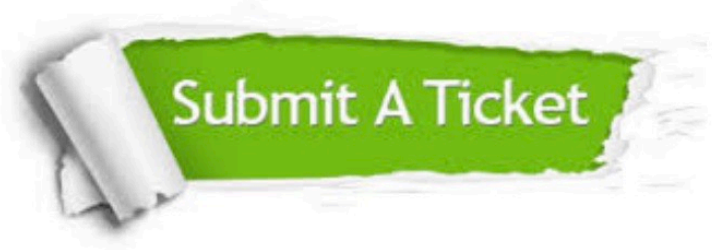

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