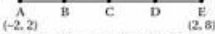# 300-510 Examinations Actual Questions | 300-510 Vce Format

COORDINATES GEOMETRY
Std 10 : Maths(B)
PRACTICE QUESTIONS

Chapters : 7   Date : 10/12/25

Section A

- Write the answer of the following questions. [Each carries 2 Marks]
  Find the distance between the points A(-6, 7) and B(-1, -5).
  Find the distance between the points A(2, 3) and B(-3, -9).
  Find the distance between the points (0, 0) and (36, 15).
  Find the area of the rhombus whose vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1).
  Determine if the points (2, -1), (1, -4) and (3, 2) are collinear.
  Determine if the points (0, -3), (1, -1) and (2, 1) are collinear.
  Show that the points (0, 6), (-5, 3) and (3, 1) are vertices of an isosceles right angle triangle.
  Verify that (1, 4), (4, 1) and (4, 4) are vertices of an isosceles right angle triangle.
  Find the midpoint of the line segment joining the points (5, 8) and (3, 2).
  $\overline{AB}$ is a diameter of the circle (2, -3) is a centre of the circle. If B is (1, 4) then find the coordinates of A.
  Find the coordinates of the points which divide the line segment joining (-2, 2) and (2, 8) into four equal parts.

  A ——— B ——— C ——— D ——— E
  (-2, 2)   (2, 8)

  If (3, 3), (6, y), (x, 7) and (5, 6) are the vertices of a parallelogram taken in order, find x and y.
  Find the coordinates of the point which divides the line segment joining the points (4, -3) and (8, 5) in the ratio 3 : 1 internally.
  If A and B are (-2, -2) and (2, -4) respectively, find the coordinates of P such that AP = $\frac{3}{7}$ AB and P lies on the line segment AB.
  Find the area of the triangle whose vertices are (3, 5), (2, -1) (-5, 6)
  Find the area of the triangle whose vertices are (4, 2) (3, 9) and (10, 10)
  Find the coordinates of the points of trisection of the line segment joining the points (4, -1) and (-2, -3).
  Find the coordinates of the points of trisection of the line segment joining the points (-7, 5) and (5, -1).

Section B

- Write the answer of the following questions. [Each carries 3 Marks]
  Name the type of quadrilateral formed, if (-1, -2), (1, 0), (-1, 2), (-3, 0) points, and give reason for your answer.
  Name the type of quadrilateral formed, if (-3, 5), (3, 1), (0, 3), (-1, -4) points, and give reason for your answer.
  Name the type of quadrilateral formed, if (4, 5), (7, 6), (4, 3), (1, 2) points, and give reasons for your answer.
  Find the point on the X-axis which is equidistant from (2, -5) and (-2, 9).
  Find a point on the Y-axis which is equidistant from the points A(6, 5) and B(- 4, 3).
  Find the values of y for which the distance between the points P(2, -3) and Q(10, y) is 10 units.
  Find a relation between x and y such that the point (x, y) is equidistant from the point (3, 6) and (-3, 4).
  Find the ratio in which the line segment joining the points (-3, 10) and (6, -8) is divided by (-1, 6).
  Find the ratio in which the line segment joining A(1, -5) and B(-4, 5) is divided by the X-axis. Also find the coordinates of the point of division.
  Find the area of a rhombus if its vertices are (3, 0), (4, 5), (-1, 4) and (-2, -1) taken in order.

Wish You - All The Best

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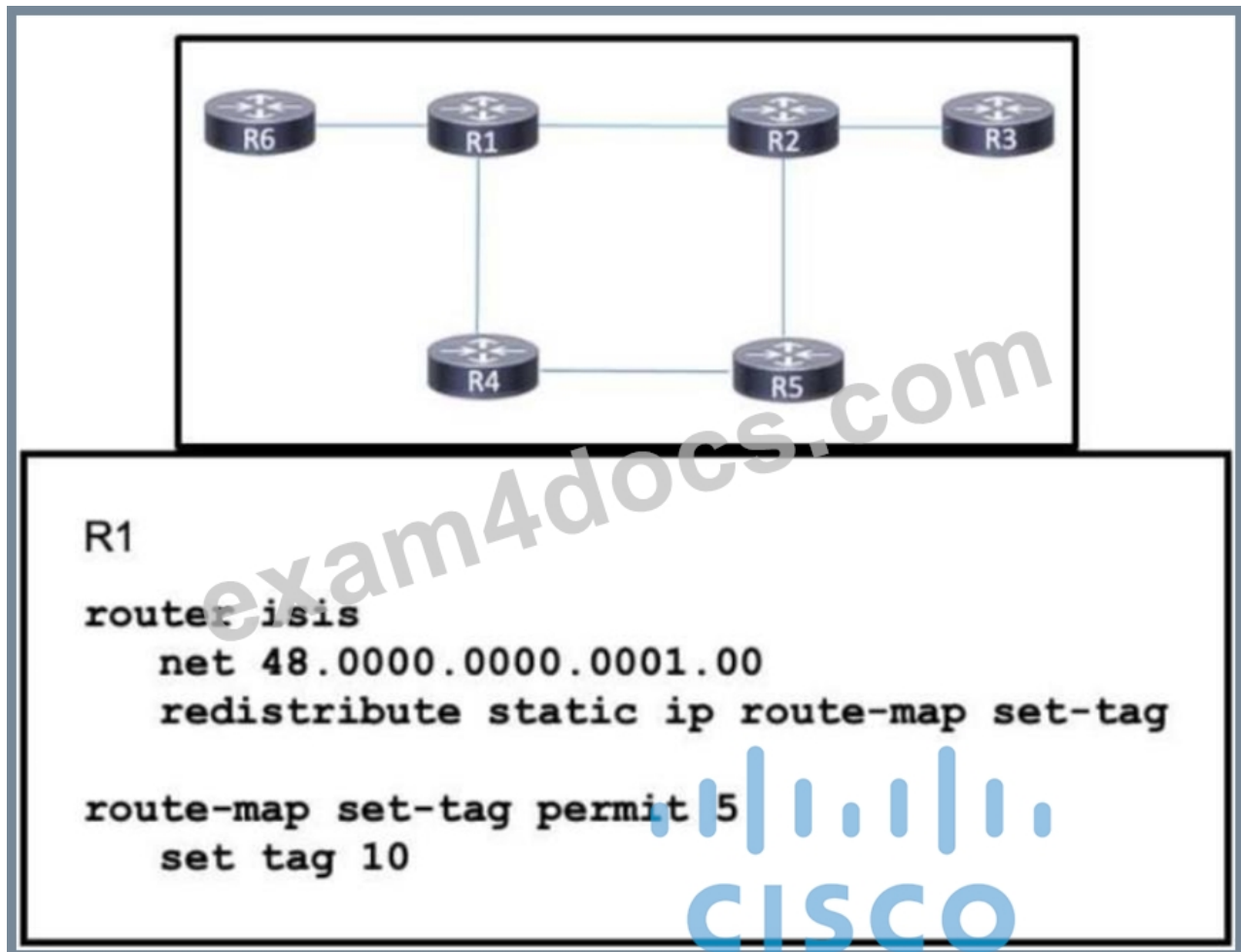## 300-510 Vce Format, Reliable 300-510 Dumps Questions

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Cisco Implementing Cisco Service Provider Advanced Routing Solutions Sample Questions (Q53-Q58):

NEW QUESTION # 53
Refer to the exhibit. IS-IS runs in the network and all routers are in the same area R1 statically routes to distribute traffic with R6 and the networking team has redistributed the static routes on R1 into IS-IS. Hosts on R3 need access to servers connected to R6. A tag has been applied to the routes to manipulate routes along the path but routers running IS-IS are still unable to reach the redistributed routes. Which action must the team take to resolve the issue?
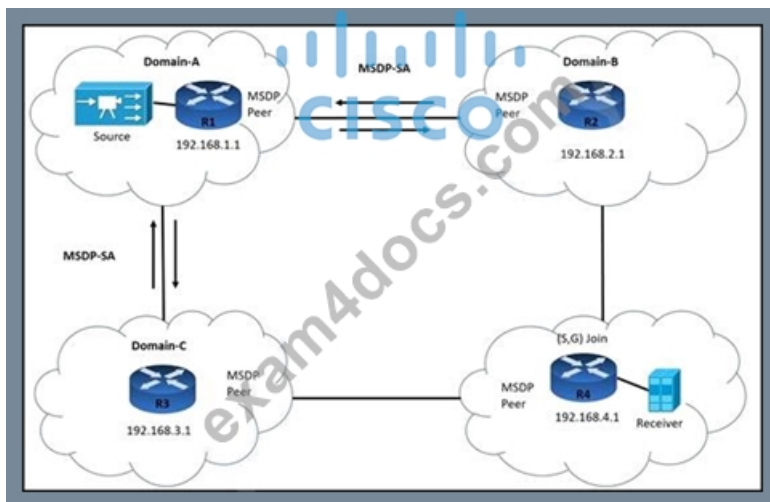

- A. Configure the route map with an additional route-map set-tag permit 10 sequence
- B. Configure the IS-IS routers with metric-style wide
- C. Configure R3 with a default route that uses R2 as the next hop
- D. Configure the routers as Level 1/Level 2 routers

Answer: B

NEW QUESTION # 54
Refer to the exhibit.

R3 is:

failing to accept multicast RP information from Domain-A

advertising MSDP SA messages to R1 and R4

receiving SA messages only from R4

Which command must the engineer implement to resolve the issue?

- A. R3# ip msdp sa-filter out 192.168.1.1
- B. R3# no ip msap sa-filter in 192.168.1.1
- C. R3# no ip msdp peer 192.168.1.1
- D. R3# ip msdp sa-filter in 192.168.3.1

Answer: B

NEW QUESTION # 55

What are two features of dual-stack? (Choose two.)

- A. It requires tunneling IPv6 traffic over an IPv4 infrastructure.
- B. It securely routes and tunnels traffic between separate sites over the Internet.
- C. It supports IPv4 and IPv6 traffic on the same infrastructure.
- D. It is implemented without excessive processing power.
- E. It allows an engineer to stack multiple Layer 2 switches to serve as a single switching unit.

Answer: C,D

NEW QUESTION # 56

What are three requirements for a static IPv6-in-IPv4 tunnel? (Choose three.)

- A. A dynamic IPv4 address must be configured.
- B. Each tunnel endpoint must support IPv4 and IPv6.
- C. A static IPv4 address must be configured.
- D. Cisco Express Forwarding must be enabled.
- E. A static IPv6 address must be configured.
- F. A dynamic IPv6 address must be configured.

Answer: B,C,E

Explanation:

An IPv6 address is manually configured on a tunnel interface, and manually configured IPv4 addresses are assigned to the tunnel source and the tunnel destination. The host or device at each end of a configured tunnel must support both the IPv4 and IPv6 protocol stacks. Manually configured tunnels can be configured between border devices or between a border device and a host. Cisco Express Forwarding switching can be used for IPv6 manually configured tunnels, or Cisco Express Forwarding switching can be disabled if process switching is needed.

NEW QUESTION # 57

How does SRv6 function on the control plane?

- A. The egress node of SR domain imposes a new outer header
- B. The ingress node of the SR domain swaps the SRv6 header for the IPv6 header
- C. The Ingress node of the SR domain adds a uSID format IPv6 header to carry the SRv6 locator.
- D. It enables SRH-capable nodes to terminate IPv6 packets at the network egress to carry the SRv6 locator.

Answer: C

NEW QUESTION # 58

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