

# HPE7-A06 Valid Exam Braindumps | Exam HPE7-A06 Prep



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MANTHAN

**Physics**

**Exercise-1**

**RESULTANT OF TWO VECTORS**

1. Two vectors  $\vec{A}$  and  $\vec{B}$  lie in a plane. Another vector  $\vec{C}$  lies outside this plane. The resultant  $\vec{A} + \vec{B} + \vec{C}$  of these three vectors  
 (a) Can be zero  
 (b) Cannot be zero  
 (c) Lies in the plane of  $\vec{A}$  and  $\vec{B}$   
 (d) Lies in the plane of  $\vec{A}$  and  $\vec{A} + \vec{B}$
2. The vector sum of the forces of 10 N and 6 N can be  
 (a) 2 N      (b) 8 N      (c) 18 N      (d) 20 N
3. A set of vectors taken in a given order gives a closed polygon. Then the resultant of these vectors is a  
 (a) Scalar quantity      (b) Pseudo vector  
 (c) Unit vector      (d) Null vector.
4. A car drives 6.0 km east, then 8 km north, and then 21 km west. The magnitude of the resulting displacement from origin is  
 (a) 35 km      (b) 23 km  
 (c) 21 km      (d) 17 km

**DIFFERENCE OF TWO VECTORS**

5. Two vectors  $\vec{a}$  and  $\vec{b}$  inclined at an angle  $\theta$  w.r.t. each other have a resultant  $\vec{c}$  which makes an angle  $\beta$  with  $\vec{a}$ . If the directions of  $\vec{a}$  and  $\vec{b}$  are interchanged, then the resultant will have the same:  
 (a) Magnitude  
 (b) Direction  
 (c) Magnitude as well as direction  
 (d) Neither magnitude nor direction
6. If  $\vec{P} + \vec{Q} = \vec{P} - \vec{Q}$ , and  $\theta$  is the angle between  $\vec{P}$  and  $\vec{Q}$ , then  
 (a)  $\theta = 0^\circ$       (b)  $\theta = 90^\circ$       (c)  $\vec{P} = 0$       (d)  $\vec{Q} = 0$
7. A particle is moving eastward with a speed of 5 m/s. In 10 s the velocity changes to 5 m/s northwards. The average acceleration in this time is  
 (a) Zero  
 (b)  $\frac{1}{\sqrt{2}}$  m/s<sup>2</sup> towards north-west.  
 (c)  $1/2$  m/s<sup>2</sup> towards north-west.  
 (d)  $1/2$  m/s<sup>2</sup> towards north.

**Motion in a Plane**

8. The magnitudes of two forces  $\vec{F}_1$  and  $\vec{F}_2$  are 10 N and 8 N. The angle between them is  $120^\circ$ . The magnitude of their difference is  
 (a)  $\sqrt{244}$  N      (b)  $\sqrt{84}$  N  
 (c)  $\sqrt{164}$  N      (d) None of these

**VECTORS IN UNIT VECTOR FORM**

9. The vector joining the points  $A (1, 1, -1)$  and  $B (2, -3, 4)$  and pointing from  $A$  to  $B$  is  
 (a)  $\vec{i} + 4\vec{j} - 5\vec{k}$       (b)  $\vec{i} + 4\vec{j} + 5\vec{k}$   
 (c)  $\vec{i} - 4\vec{j} + 5\vec{k}$       (d)  $\vec{i} - 4\vec{j} - 5\vec{k}$
10. The  $x$  and  $y$  components of a force are 2N and -3N. The force is  
 (a)  $2\vec{i} - 3\vec{j}$       (b)  $2\vec{i} + 3\vec{j}$       (c)  $-2\vec{i} - 3\vec{j}$       (d)  $3\vec{i} + 2\vec{j}$
11. The vector  $\vec{i} + \vec{j} + \vec{k}$  is rotated through an angle  $\theta$  and doubled in magnitude, then it becomes  $4\vec{i} + (4\vec{x} - 2\vec{j}) + 2\vec{k}$ . The values of  $x$  are  
 (a)  $-\frac{2}{3}$       (b)  $\frac{1}{3}$       (c)  $\frac{2}{3}$       (d) 1

**DOT PRODUCT**

12. Three non zero vectors  $\vec{A}$ ,  $\vec{B}$  and  $\vec{C}$  satisfy the relation  $\vec{A} \cdot \vec{B} = 0$  and  $\vec{A} \cdot \vec{C} = 0$ . Then  $\vec{A}$  can be parallel to  
 (a)  $\vec{B}$       (b)  $\vec{C}$       (c)  $\vec{B} \cdot \vec{C}$       (d)  $\vec{B} \times \vec{C}$
13. The value of scalar product of two vectors is 8 and that of vector product is  $8\sqrt{3}$ . The angle between them is:  
 (a)  $30^\circ$       (b)  $60^\circ$       (c)  $120^\circ$       (d)  $150^\circ$
14. A particle is moving under the influence of force  $\vec{F} = [\vec{i} - 2\vec{j}]N$ , is now moved from the point  $(x, y, z) = (2, 1, 3)$  to the point  $(x, y, z) = (3, 2, 4)$  m. How much work is done by the force  $\vec{F}$  during this time period? ( $W = \vec{F} \cdot \vec{s}$ )  
 (a) 0 J      (b) -1 J  
 (c) 1 J      (d) None of these
15. The angle between  $(\vec{i} + \vec{j} + \vec{k})$  and  $(2\vec{i} + 2\vec{j} - 2\vec{k})$  is  
 (a)  $\cos^{-1} \frac{1}{3}$       (b)  $\cos^{-1} \frac{1}{\sqrt{3}}$   
 (c)  $\sin^{-1} \frac{1}{3}$       (d) None of these

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## HPE Campus Access Switching Expert Written Exam Sample Questions (Q20-Q25):

### NEW QUESTION # 20

You are configuring an SSID that is using 802.1X as a security mechanism. What is the reason for using WPA3-Enterprise (CCM-128) when deploying Wi-Fi 6 networks?

- A. WPA3-Enterprise (CCM-128) is also called WPA3-Enterprise Transition Mode. It will allow WPA2 clients to connect.
- B. WPA3-Enterprise (CCM-128) is also called WPA3-Enterprise 192-bit mode. It is WPA3 only and enforces specific EAP certificate ciphers.
- C. WPA3-Enterprise (CCM-128) is also called WPA3-Enterprise Only Mode. There is no support for WPA2 clients.
- D. WPA3-Enterprise (CCM-128) is also called WPA3-Enterprise Compatibility Mode. It will allow WPA2 clients to connect.

### Answer: A

Explanation:

The question asks for the reason for using WPA3-Enterprise (CCM-128) when deploying Wi-Fi 6 networks.

\* WPA3-Enterprise Modes:

\* CCM-128: Uses AES-CCMP-128 (same cipher as WPA2). Its main purpose is to provide a transition path from WPA2 to WPA3. It allows both WPA3-capable and WPA2-only clients to connect to the same SSID. It enforces Protected Management Frames (PMF, 802.11w) when possible (required for WPA3, optional for WPA2). It's often called "Transition Mode" or "Compatibility Mode".

\* GCMP-256: Uses stronger AES-GCMP-256. It operates in "WPA3-Only Mode" and does not allow WPA2 clients.

\* Wi-Fi 6 (802.11ax) & WPA3: Wi-Fi 6 certification requires support for WPA3.

\* Analysis of Options:

\* A: Incorrectly calls CCM-128 "192-bit mode" and "WPA3 only".

\* B: Correctly calls CCM-128 "Transition Mode" and states it allows WPA2 clients.

\* C: Correctly calls CCM-128 "Compatibility Mode" and states it allows WPA2 clients.

"Compatibility Mode" and "Transition Mode" are used interchangeably for this WPA3 mode.

\* D: Incorrectly calls CCM-128 "Only Mode" and states no WPA2 support.

\* Conclusion: Both Option B and Option C accurately describe WPA3-Enterprise (CCM-128). It is designed as a transition/compatibility mode to allow environments to adopt WPA3 features (like mandatory PMF for capable clients) while still supporting legacy WPA2 clients on the same network during the migration period. Selecting either B or C would be functionally correct based on common terminology.

References: Wi-Fi Alliance WPA3 specifications, Aruba WPA3 deployment guides, 802.11ax standard information. This relates to the "WLAN" (9%) and "Security" (10%) objectives.

### NEW QUESTION # 21

An administrator is monitoring third-party WLAN transmitters in HPE Aruba Networking Central and some of them are classified as rogue and suspected rogue.

How are rogue classified when using the default classification method for the rule "Detected on Wire" in HPE Aruba Networking Central?

- A. plugged into a wired network AND WLAN classification = "Interfering"
- B. plugged into a wired network OR WLAN classification = "Interfering"
- C. **plugged into a wired network**
- D. plugged into a wired network AND WLAN classification = "Detected on Wire"

### Answer: C

Explanation:

In HPE Aruba Networking Central, when using the default classification method, an AP is classified as a rogue if it is detected plugged into the wired network. If it is only seen over the air without wired connectivity, it may be classified as suspected rogue or interfering, but "Detected on Wire" defaults to rogue.

## NEW QUESTION # 22

Security administrators are complaining about the number of HPE Aruba Networking ClearPass Access Tracker events from the user 'radius-test'. Given the configuration below, how can the number of events be reduced?

```
radius-server tracking user-name radius-test password plaintext Aruba123!
radius-server host 10.1.1.1 tracking enable
```

- A. Decrease the tracking retries.
- B. Increase the tracking interval.
- C. Configure 'any' tracking mode.
- D. Configure 'dead-only' tracking mode.

**Answer: D**

Explanation:

The configuration shown enables RADIUS server tracking using the test user radius-test. By default, this generates continuous Access Tracker events because every probe attempt is logged.

To reduce the number of events, the tracking mode should be changed to dead-only, which limits authentication probes to when the RADIUS server is marked as unreachable. This way, ClearPass only sees test authentications when a failure condition occurs, significantly reducing unnecessary log entries.

## NEW QUESTION # 23

Which statements accurately describe OSPF Graceful Restart considerations? (Choose two.)

- A. You must ensure your VSF stack has a secondary member when acting as a GR helper.
- B. A grace period timer must be configured on the GR helper.
- C. The GR restarter function is only supported on AOS-CX 6200, CX 6300, CX 6400, and CX 8400 models.
- D. You must be careful not to set the grace period too long or it may suppress routing updates.
- E. To initiate GR, the restarter sends out a link-local multicast.

**Answer: B**

Explanation:

The GR helper must be configured with a grace period timer so it knows how long to continue advertising adjacencies while the restarting router recovers.

If the grace period is set too long, routing updates may be suppressed unnecessarily, delaying convergence.

## NEW QUESTION # 24

You are about to deploy a gateway that is on factory default. ZTP cannot be used for different reasons, but you are searching for valid alternatives. What are two valid alternatives for ZTP? (Select two.)

- A. UseOTP by connecting to port 0/0/1. and use a Web browser to complete provisioning.
- B. Use OTP by connecting to the console port, and use terminal software to complete provisioning. \*Static- Activate" should be used.
- C. Use OTP by connecting to port 0/0/1 with a static IP. and use a Web browser to complete provisioning.
- D. Use OTP by connecting to the console port, and use terminal software to complete provisioning. "Full- Setup" should be used.
- E. Use OTP by connecting to port 0/0/0. and use a Web browser to complete provisioning.

**Answer: A,D**

Explanation:

The question asks for valid alternatives to Zero Touch Provisioning (ZTP) for initially configuring a factory default Aruba gateway when ZTP cannot be used.

\* Aruba Gateway Initial Provisioning Methods:

\* ZTP:Automated provisioning using Activate/Central.

\* One-Touch Provisioning (OTP) / Manual Setup:Involves direct connection for initial configuration.

\* Web UI:Connecting a laptop to a specific management or designated setup port (often GE0 /0/1 on many gateway models) allows access to a web-based setup wizard.

\* Console Port:Connecting via the serial console port allows CLI access, which includes guided setup scripts or manual

configuration.

\* Analysis of Options:

\* A: Port 0/0/0 is typically the OOBM port, not the standard OTP web UI port.

\* B: Port 0/0/1 is commonly used for OTP via Web browser on many Aruba gateway models.

\* C: Using the console port with terminal software for initial setup (potentially using a "Full-Setup" wizard or script) is a standard manual method.

\* D: "Static-Activate" refers to manual registration with the Activate service, not a console setup mode.

\* E: Requires setting a static IP, adding complexity beyond the basic OTP connection method described in B.

\* Conclusion: Using the designated OTP Ethernet port (commonly GE0/0/1) with a web browser (Option B) and using the console port with terminal software (Option C) are the standard, valid alternatives to ZTP for initial gateway setup.

References: Aruba Gateway Installation and Quick Start Guides, AOS-10 Fundamentals Guide (Provisioning sections). This relates to "Connectivity" (9%) and "Troubleshooting" (10%) objectives.

## NEW QUESTION # 25

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