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MECHANICAL ENGINEERING

PAPER - I
SECTION A

1. Answer any four of the following (each answer should conform to a limit of around 150 words).

(a) Mention the conditions required for a two mass system to be dynamically equivalent to a rigid mechanical component. Why sometimes is a hypothetical correction couple applied on the two mass system to make it dynamically equivalent to a rigid body? Find the position of centre of percussion of a compound pendulum from its centre of gravity. What is the significance of the concept of centre of percussion for a batsman playing a cricket ball? (6 + 4 = 10)

(b) What is meant by hunting of governor? Explain briefly the causes of its occurrence. Justify with reasons, whether it is more severe in case of uniform, governor or isochronous governor (10)

(c) (i) A connecting rod in I.C. engine is designed as a column, with an I-section. Designers take moment of inertia of the cross-section about one axis equal to 4 times that taken about the perpendicular axis. Why? (6 + 4 = 10)

(ii) Why is it considered that the hollow shaft under torsion is lighter than a solid one, if other parameters are the same?

(d) (i) Draw a Mohr's circle of stress for a round bar which is shrunk fit by a hub, with brief explanation. (5 + 5 = 10)

(ii) A cantilever is loaded and the bending moment diagram is rectangular as shown in Figure. What will be the shape of the shear force diagram? (5 + 5 = 10)

(e) With reference to figure, neglect the weight of the bar and stopper. A load W is dropped from a height h . Given $W = 1.0 \text{ kN}$, area of cross- section of the bar = 20 mm^2 . Find the instant tensile stress developed in the bar when the weight W is dropped from a height $h = 0$. (10)

2. (a) A machine weighing 68 N is mounted on a set of springs, whose equivalent spring stiffness, $K = 1070 \text{ N/cm}$ and damping factor, $\xi = 0.2$ arranged vertically on a rigid foundation. A piston within the machine weighing 2.0 N has a vertical reciprocating motion, with a stroke of 8.0 cm and a crank shaft with a speed of 3000 rpm. Assuming the motion to be simple harmonic, determine: (15)

(i) The amplitude of vibration in the vertical direction of the machine.

(ii) The transmissibility ratio and the force transmitted to the foundation. The phase lag between the transmitted force and the exciting force.

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HP Selling HPE Aruba Networking Solutions Sample Questions (Q21-Q26):

NEW QUESTION # 21

An IT security admin's priority is to manage the security risks from a growing number of personal and IoT devices on the network. Which feature of HPE Aruba Networking Central should you emphasize?

- A. HPE GreenLake for Networking solutions require management services from HPE Aruba Networking, reducing the risk of human errors.
- B. **HPE Aruba Networking Device Insight provides real-time visibility and monitoring of all devices connected to the network.**
- C. HPE Aruba Networking Unified Infrastructure eases integration in a heterogeneous environment and simplifies management.
- D. HPE Aruba Networking SD-WAN solutions send traffic to the data center for monitoring and behavior analysis.

Answer: B

Explanation:

The correct answer is A because Aruba Central with Device Insight provides real-time discovery, classification, and monitoring of all connected devices—including IoT, BYOD, and corporate endpoints.

This visibility is essential for identifying unmanaged or rogue devices, applying role-based access, and minimizing risks that come from a rapidly expanding device landscape.

Relevant extracts from official HPE Aruba Networking documentation:

- * "Device Insight in Aruba Central uses AI/ML to automatically discover and profile all devices, including IoT and personal endpoints, with high confidence."
- * "By providing continuous visibility and monitoring, Device Insight enables IT to detect rogue or misbehaving devices before they become a threat."
- * "Central integrates with ClearPass to enforce least-privilege access policies based on device type and context."
- * "This capability helps security admins close blind spots and manage risks associated with the proliferation of IoT and unmanaged devices." Why the other options are incorrect:

* B GreenLake for Networking is a consumption and service model, not a feature directly tied to IoT and personal device risk management.

* C Unified Infrastructure simplifies multi-domain management but does not directly address device-level visibility and risk.

* D SD-WAN does not solve the IoT/personal device visibility challenge; it is focused on WAN optimization and security.

References (HPE Aruba Networking Solutions / Study Guides):

- * Aruba Central Device Insight - Solution Overview
- * Aruba ESP Zero Trust Security for IoT - White Paper
- * Aruba Central and ClearPass Integration - Technical Guide
- * Aruba Client and Device Visibility - Product Brief

NEW QUESTION # 22

A customer wants to know what makes HPE Aruba Networking ZTNA better than a traditional virtual private network (VPN). What is one key distinguishing value?

- A. The cloud-based solution seamlessly scales to accommodate customers' growing remote workforce.
- B. The cost of the solution is lower than a traditional VPN because HPE Aruba Networking ZTNA uses HPE Aruba Networking gateways.
- C. **HPE Aruba Networking ZTNA shrinks the attack surface by automatically creating and applying least-privilege policies.**
- D. HPE Aruba Networking ZTNA decreases complexity with its on-prem management platform.

Answer: C

Explanation:

The correct answer is C because Aruba Zero Trust Network Access (ZTNA) fundamentally reduces risk by replacing broad, implicit trust models of VPNs with least-privilege, identity-based access policies. Instead of giving remote users blanket access to the network, ZTNA dynamically enforces application- and user-specific policies, shrinking the attack surface and preventing lateral movement.

Relevant extracts from official HPE Aruba Networking documentation:

- * "ZTNA applies Zero Trust principles by continuously verifying user and device identity and assigning least-privilege access based on contextual factors."
- * "Unlike traditional VPNs that extend full network access, Aruba ZTNA provides per-application access, dramatically reducing the attack surface."
- * "With automated policy enforcement, Aruba ZTNA ensures secure access while preventing unauthorized lateral movement across the network."
- * "ZTNA secures the remote workforce by combining granular access control with Zero Trust segmentation, delivering stronger security than legacy VPN models." Why the other options are incorrect:
 - * AScalability is a benefit, but it is not the key distinguishing factor compared to VPN-least-privilege security is the core differentiation.
 - * BAruba ZTNA is cloud-native, not dependent on an on-prem management platform, so this is inaccurate.
 - * DLower cost is not the primary positioning; the value lies in enhanced security and reduced risk.

References (HPE Aruba Networking Solutions / Study Guides):

- * Aruba Zero Trust Network Access (ZTNA) - Solution Overview
- * Aruba ESP Zero Trust Security - Technical White Paper
- * Aruba SSE and ZTNA for Remote Workforce - Product Brief
- * Aruba Security and Access Control - Deployment Guide

NEW QUESTION # 23

What is a common challenge driving customers to upgrade their networks?

- A. The wired network does not support the correct Ethernet technologies for users and IoT devices.
- B. The network core and the network edge cannot interoperate with each other.
- C. Most network vendors only provide command line interfaces for network devices, not easy-to-use GUIs.
- D. **The wireless network cannot deliver the performance users need.**

Answer: D

Explanation:

The correct answer is Bbecause one of the most common drivers for network upgrades is that legacy wireless infrastructure cannot meet the growing performance demands of users, IoT devices, and modern applications. With the proliferation of Wi-Fi 6, Wi-Fi 6E, and now Wi-Fi 7, enterprises are upgrading networks to deliver higher capacity, lower latency, and improved user experience.

Relevant extracts from HPE Aruba Networking documentation:

- * "Many customers are upgrading to Aruba Wi-Fi 6/6E to address performance gaps created by legacy Wi-Fi networks that cannot meet today's demand."
- * "Network modernization is primarily driven by the need for higher wireless throughput, improved efficiency for IoT and mobile devices, and support for cloud-based applications."
- * "As organizations embrace hybrid work and IoT, wireless networks that fail to deliver required performance have become a leading reason for infrastructure refresh."
- * "Aruba ESP and Aruba Central enable IT to modernize networks to ensure consistent high-performance wireless experiences."

Why the other options are incorrect:

- * ACore-to-edge interoperability is important, but not the most common driver compared to wireless performance issues.
- * CEthernet technology gaps exist but are secondary compared to wireless upgrade demands.
- * DCLI vs GUI management is a usability concern, but not the primary driver of network refresh projects.

References (HPE Aruba Networking Solutions / Study Guides):

- * Aruba ESP Networking Modernization Overview
- * Aruba Wi-Fi 6/6E/7 Upgrade Guide
- * Aruba Edge-to-Cloud Trends and Drivers - Study Guide
- * Aruba Central for Hybrid Work and IoT - Technical White Paper

NEW QUESTION # 24

A customer has many small sites that connect over a wide area network (WAN) to the customer's data center and access the Internet from there. Due to changes in traffic patterns, the CIO now wants to stop sending Internet-bound traffic through the data center, but the Head of IT Security is concerned about potential security risks from that change. What benefit of HPE Aruba Networking solutions should you emphasize?

- A. HPE Aruba Networking offers branch-in-the-box solutions with all the services branches require, so branch devices no longer need to send traffic to the Internet.

- B. HPE Aruba Networking offers SD-WAN solutions for branches with built-in next-generation firewall capabilities.
- C. HPE Aruba Networking solutions optimize network speeds to such a high degree that the company can continue sending all traffic through the data center.
- D. HPE Aruba Networking Fabric Composer automatically establishes a secure fabric across all the customer's sites.

Answer: B

Explanation:

The correct answer is C because HPE Aruba Networking EdgeConnect SD-WAN provides secure local Internet breakout at branch sites with integrated next-generation firewall (NGFW) and security features.

This allows Internet-bound traffic to be securely routed directly from the branch instead of being backhauled through the data center, while still ensuring full visibility and threat protection.

Relevant extracts from HPE Aruba Networking documentation:

- * "Aruba EdgeConnect SD-WAN enables local Internet breakout with integrated NGFW and IDS/IPS capabilities, reducing latency while ensuring strong security."
- * "This approach eliminates the inefficiencies of backhauling SaaS and Internet traffic to the data center, without compromising security posture."
- * "Built-in security services in Aruba SD-WAN address the CIO's need for performance and the CISO's need for risk mitigation."
- * "Aruba EdgeConnect integrates with SSE and SASE frameworks to extend security policies consistently across all branch sites."

Why the other options are incorrect:

- * A Keeping all traffic routed through the data center defeats the purpose of modern SD-WAN and SaaS-optimized architectures.
- * B While Aruba provides branch-in-a-box solutions, the specific concern here is security for Internet breakout, addressed by SD-WAN with NGFW.
- * D Fabric Composer is a data center fabric orchestration tool, not designed for WAN/branch security.

References (HPE Aruba Networking Solutions / Study Guides):

- * Aruba EdgeConnect SD-WAN Technical Overview
- * Aruba Edge-to-Cloud Security White Paper
- * Aruba SASE and SD-WAN Integration Guide
- * Aruba ESP Branch Solutions Study Guide

NEW QUESTION # 25

You are meeting with a potential customer for HPE Aruba Networking data center solutions. Which question best directs the conversation to the benefits of HPE Aruba Networking CX 10000?

- A. How are you protecting your data center network traffic from cyberattacks?
- B. How would highly accurate location-based services benefit your organization in managing the data center?
- C. How are you securing IoT devices so they do not put your network at risk?
- D. What is your company's plan for recovering from a ransomware attack that targets your data center?

Answer: A

Explanation:

The correct answer is A because the Aruba CX 10000 Switch Series is designed specifically to address east-west security in the data center by integrating stateful firewalling and distributed services directly into the top-of-rack switch. This provides protection for network traffic within the data center against cyberattacks such as lateral movement, ransomware spread, and insider threats.

Relevant extracts from official HPE Aruba Networking documentation:

- * "The Aruba CX 10000 with Pensando provides a unique ability to extend Zero Trust and distributed firewalling deep into the data center, securing traffic east-west at scale."

* "By embedding stateful security services directly in the switching fabric, the CX 10000 eliminates blind spots where east-west traffic would otherwise go unprotected."

* "Organizations can now protect critical workloads from advanced threats by applying segmentation and firewall policies closest to the application." Why the other options are incorrect:

- * B Securing IoT devices is primarily a campus/edge use case (addressed by Aruba Central, ClearPass, and Dynamic Segmentation), not a core CX 10000 differentiator.

* C Ransomware recovery is important but focuses on backup/restore and disaster recovery, not the proactive in-fabric security benefits of CX 10000.

* D Location-based services are a WLAN and edge networking capability, not relevant to data center switching.

References (HPE Aruba Networking Solutions / Study Guides):

- * Aruba CX 10000 Switch Series with Pensando - Product Overview / Data Sheet
- * Aruba ESP Data Center Networking - Solution Overview

* Aruba Zero Trust and Distributed Services Architecture - Technical White Paper
* HPE Aruba Networking Competitive Positioning for Data Center Solutions

NEW QUESTION # 26

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