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Paper 1

Section A - Chemistry

Time: 20 minutes

M.M: 30

Each Question Carries +3 marks for the right answer and -1 marks for the wrong answer

$h = 6.6 \times 10^{-34}$

$c = 3 \times 10^8$ m/s

1) X-rays of frequency 1.53×10^{16} Hz cause the emission of electrons from a material with a maximum kinetic energy of 2.18×10^{-16} J. Calculate the threshold frequency for the release of electrons from the material.

- a) 1.05×10^{16}
- b) 1.1×10^{16}
- c) 1.15×10^{16}
- d) 1.2×10^{16}

2) Photons of energy 6 eV and 3 eV are both able to eject electrons from Caesium surface, but only photons of energy 6 eV are able to eject electrons from gold surface, given this information which could be the stopping potential of Caesium and Gold

- a) Cs: 1.5 V, Au: 2 V
- b) Cs: 2 V, Au: 4 V
- c) Cs: 3.5 V, Au: 5 V
- d) Cs: 2 V, Au: 6.1 V

3) Light A of wavelength 2000 \AA and some intensity is able to eject the electrons from the surface of metal. What happens if we use another light whose wavelength and intensity are both half of that of light A with the same metal

- a) Electrons ejected will have higher kinetic energy but will be less in quantity
- b) Electrons ejected will have lower kinetic energy but will be less in quantity
- c) Electrons ejected will have lower kinetic energy but will be more in quantity
- d) Electrons ejected will have higher kinetic energy and will be more in quantity

4) How many electrons of Nitrogen have spin quantum number of $+\frac{1}{2}$

- a) 3
- b) 4
- c) 5
- d) 6

5) As per the bohr's model of atom, the atomic radius of 4th orbit of hydrogen is

- a) 2 times larger than the atomic radius of first orbit
- b) 4 times larger than the atomic radius of first orbit
- c) 8 times larger than the atomic radius of first orbit
- d) 16 times larger than the atomic radius of first orbit

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AI CERTs AI+ Network Examination Sample Questions (Q45-Q50):

NEW QUESTION # 45

(In Cisco Packet Tracer, after connecting two networks with static routes, which command verifies that PCs on different networks can communicate?)

- A. show ip protocols.
- B. ping [Destination IP Address].
- C. ip route.
- D. show running-config

Answer: B

Explanation:

The ping [Destination IP Address] command is the correct and most reliable method to verify communication between PCs on different networks in Cisco Packet Tracer. AI+ Network lab documentation highlights ping as a Layer 3 connectivity test that confirms end-to-end reachability across routed networks.

When static routes are configured, routing tables may appear correct, but actual packet delivery must still be validated. The ping command sends ICMP Echo Request packets from the source device to the destination IP address and expects Echo Replies in return. A successful response confirms that routing, addressing, interface configuration, and Layer 2/Layer 3 operations are functioning correctly across the network path.

Other options only provide indirect information. show running-config displays configuration settings but does not validate traffic flow. ip route shows routing table entries, confirming that routes exist, but not that hosts can communicate. show ip protocols only lists routing protocol information and is not relevant for testing static route connectivity.

AI+ Network practical labs consistently emphasize ping as the primary verification tool after routing changes, making option D the correct answer.

NEW QUESTION # 46

(A user is unable to access a web application. If you suspect the issue is with routing, which OSI layer will you investigate?)

- A. Application Layer
- B. Network Layer
- C. Transport Layer
- D. Data Link Layer

Answer: B

Explanation:

Routing issues are investigated at the Network Layer (Layer 3) of the OSI model. AI+ Network foundational documentation explains that the Network Layer is responsible for logical addressing and packet routing between networks using IP addresses. If a user cannot access a web application due to routing problems, issues may include missing routes, incorrect gateway configuration, routing loops, or unreachable networks. Troubleshooting typically involves examining routing tables, gateway settings, and path selection mechanisms at Layer 3.

The Data Link Layer handles local frame delivery, the Transport Layer manages end-to-end communication using TCP or UDP, and the Application Layer relates to services such as HTTP. AI+ Network materials consistently reinforce that routing failures are diagnosed at the Network Layer.

NEW QUESTION # 47

(How does Python's Netmiko library simplify network automation?)

- A. By supporting multi-vendor environments for device configuration.
- B. By automating application deployment on cloud platforms.
- C. By managing Kubernetes clusters for container orchestration.
- D. By integrating deep learning algorithms for anomaly detection.

Answer: A

Explanation:

Python's Netmiko library simplifies network automation by supporting multi-vendor environments for device configuration. AI+ Network automation documentation highlights Netmiko as a Python-based abstraction layer built on SSH that enables consistent interaction with network devices from multiple vendors, including Cisco, Juniper, Arista, and HP.

Netmiko removes the complexity of vendor-specific CLI nuances by providing standardized connection methods and command

execution functions. This allows network engineers to automate repetitive configuration and validation tasks using a single script rather than maintaining separate workflows for each platform.

Unlike tools focused on AI analytics or container orchestration, Netmiko is purpose-built for network device management, making it ideal for configuration backups, bulk changes, and compliance checks. AI+ Network materials emphasize Netmiko as a foundational automation tool that bridges traditional networking and programmable infrastructure.

NEW QUESTION # 48

(Which platform is best for handling traffic surges and maintaining application availability across multi-cloud environments?)

- A. AI Engine
- B. Kubernetes
- C. Ansible
- D. OpenStack

Answer: B

Explanation:

Kubernetes is the most suitable platform for handling traffic surges and maintaining high application availability across multi-cloud environments. According to AI+ Network architecture principles, Kubernetes is designed as a cloud-native orchestration platform that automates container deployment, scaling, and management across distributed infrastructures. One of its core strengths is horizontal auto-scaling, which dynamically increases or decreases application pods based on real-time metrics such as CPU utilization, memory usage, or custom telemetry. This makes Kubernetes highly effective during sudden traffic spikes.

In multi-cloud environments, Kubernetes provides a consistent control plane abstraction across different cloud providers, enabling workload portability and resilience. AI+ Network documentation emphasizes Kubernetes' support for self-healing, where failed containers are automatically restarted or rescheduled without manual intervention, ensuring continuous application availability. Additionally, Kubernetes integrates seamlessly with cloud-native load balancers and service meshes, allowing intelligent traffic distribution and failover across regions and providers.

Compared to OpenStack, which focuses on infrastructure provisioning, or Ansible, which is primarily a configuration automation tool, Kubernetes directly manages application runtime behavior at scale. AI Engines, while valuable for analytics, do not provide orchestration capabilities. Therefore, Kubernetes stands out as the optimal platform for maintaining performance, scalability, and availability in modern, AI-driven, multi-cloud network architectures.

NEW QUESTION # 49

(What is the purpose of VLANs in a network?)

- A. To logically divide a physical network into isolated segments.
- B. To provide internet access to all connected devices.
- C. To enhance physical connectivity between devices.
- D. To replace the need for network switches and routers.

Answer: A

Explanation:

Virtual Local Area Networks (VLANs) are used to logically divide a single physical network into multiple isolated broadcast domains. According to AI+ Network foundational documentation, VLANs allow network administrators to group devices based on function, department, or security requirements rather than physical location.

By segmenting a network logically, VLANs improve security by limiting broadcast traffic and reducing the scope of potential attacks. Devices in different VLANs cannot communicate directly without routing, which allows administrators to enforce access control policies. VLANs also enhance performance by reducing unnecessary broadcast traffic across the entire network.

VLANs do not enhance physical connectivity, provide internet access by themselves, or replace networking hardware. Instead, they work in conjunction with switches and routers to create scalable, secure, and efficient network architectures. AI+ Network materials consistently identify VLANs as a core technique for network segmentation and traffic management.

NEW QUESTION # 50

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