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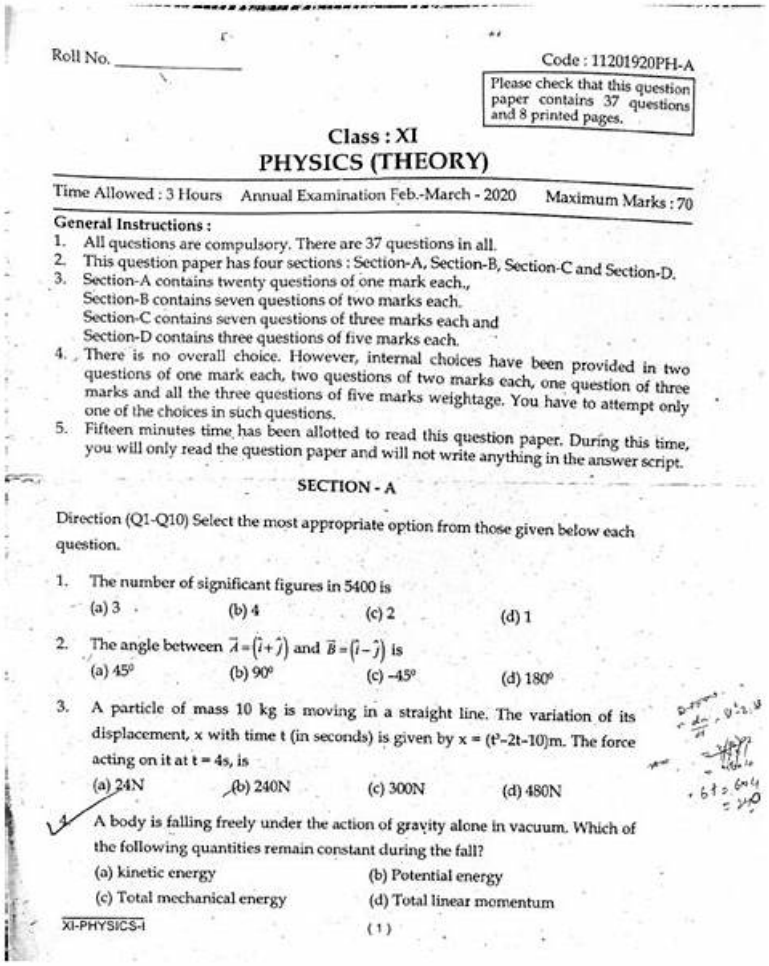

Roll No. _____

Code : 11201920PH-A

Please check that this question paper contains 37 questions and 8 printed pages.

Class : XI

PHYSICS (THEORY)

Time Allowed : 3 Hours Annual Examination Feb.-March - 2020 Maximum Marks : 70

General Instructions :

1. All questions are compulsory. There are 37 questions in all.
2. This question paper has four sections : Section-A, Section-B, Section-C and Section-D.
3. Section-A contains twenty questions of one mark each.,
   Section-B contains seven questions of two marks each.
   Section-C contains seven questions of three marks each and
   Section-D contains three questions of five marks each.
4. There is no overall choice. However, internal choices have been provided in two questions of one mark each, two questions of two marks each, one question of three marks and all the three questions of five marks weightage. You have to attempt only one of the choices in such questions.
5. Fifteen minutes time has been allotted to read this question paper. During this time, you will only read the question paper and will not write anything in the answer script.

SECTION - A

Direction (Q1-Q10) Select the most appropriate option from those given below each question.

1. The number of significant figures in 5400 is
   (a) 3 (b) 4 (c) 2 (d) 1
2. The angle between $\vec{A}=(\hat{i}+\hat{j})$ and $\vec{B}=(\hat{i}-\hat{j})$ is
   (a) 45° (b) 90° (c) -45° (d) 180°
3. A particle of mass 10 kg is moving in a straight line. The variation of its displacement, x with time t (in seconds) is given by x = (t^3-2t-10)m. The force acting on it at t = 4s, is
   (a) 24N (b) 240N (c) 300N (d) 480N
4. A body is falling freely under the action of gravity alone in vacuum. Which of the following quantities remain constant during the fall?
   (a) kinetic energy (b) Potential energy
   (c) Total mechanical energy (d) Total linear momentum

XI-PHYSICS-I (1)

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Cisco 300-540 Exam Syllabus Topics:

Topic	Details

Topic 1	• Virtualized Architecture: This section of the exam measures the skills of Cloud Network Engineers and covers the foundational concepts of virtualized infrastructures used in modern service provider and cloud environments. Candidates are expected to understand constraints in IaaS designs, determine appropriate cloud service models, and demonstrate awareness of container orchestration compared to traditional virtual machines. The exam also evaluates the ability to implement key virtualization functions such as NFV, VNF, NSO, and virtualized Cisco platforms. Learners must be able to deploy NFV with automation tools, manage VNF onboarding, work with NSO-driven orchestration, and use protocols like NETCONF, RESTCONF, REST APIs, and gNMI within automated cloud ecosystems. A general understanding of supporting platforms such as OpenStack also forms part of the required knowledge in this domain.
Topic 2	• High Availability: This section of the exam measures the skills of Cloud Infrastructure Architects and covers the design and implementation of redundancy and resiliency mechanisms in virtualized network functions and distributed cloud platforms. It includes data plane redundancy for VNFs, high availability within a single VIM control plane, and resilient compute, vNIC, and top-of-rack switching. The exam requires an understanding of multi-homing, EVLAG configurations, virtual private cloud deployment, and ECMP strategies for NFVI integrations with physical routing protocols such as BGP, OSPF, and IS-IS. Candidates must also recommend suitable high-availability models involving DNS, routing, and load balancing.
Topic 3	• Service Assurance and Optimization: This section of the exam measures the skills of Cloud Operations Engineers and covers assurance mechanisms used to maintain performance, stability, and visibility across NFVI environments. It includes network assurance concepts such as MANO frameworks, VNF workload monitoring, VIM control plane KPIs, and streaming telemetry with gRPC and gNMI. Candidates must understand cloud infrastructure performance monitoring tools, including SR-PM, NetFlow, IPFIX, syslog, SNMP traps, RMON, cloud agents, and automated fault management systems. The domain also touches on diagnosing NFVI-related errors and optimizing VNFs using techniques such as SR-IOV and software-accelerated virtual switching technologies like DPDK and VPP.
Topic 4	• Cloud Interconnect: This section of the exam measures the skills of Service Provider Network Engineers and covers how large networks interconnect with cloud platforms and carrier-neutral facilities. Candidates are expected to understand various connectivity options to cloud providers, customer sites, and other neutral facilities, as well as evaluate WAN connectivity models such as direct connect, MPLS or segment routing, and IPsec VPN links. The domain also includes the ability to troubleshoot advanced data center interconnect solutions, including EVPN VXLAN, EVPN over SR • MPLS, ACI-based connectivity, and pseudowire architectures supporting cloud-to-cloud and cloud-to-edge communication.
Topic 5	• Security: This section of the exam measures the skills of Network Security Engineers and covers the implementation of infrastructure-level protection in cloud and NFVI ecosystems. It includes topics such as ACLs, uRPF, RTBH, router hardening, BGP flowspec, TACACS, and MACSEC. Candidates should understand DoS mitigation methods and apply security practices within NFVI, focusing on API protection, securing the control and management plane, and segmentation strategies in service provider cloud environments. The domain also evaluates basic knowledge of TLS, mTLS, and general cloud security solutions related to DNS protection, zero-day defenses, and malware detection.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q185-Q190):

NEW QUESTION # 185
High availability design models often include:

- A. Single points of failure
- B. DNS, routing, and load balancers
- C. Decreased focus on redundancy
- D. Only physical redundancy

Answer: B

NEW QUESTION # 186
An engineer must create a new VPC and deploy several Amazon EC2 instances in AWS. Only SSH connections originating from IP address 20.20.20.20 must be allowed to reach the EC2 instances. What must be configured?

- A. Access control list
- B. Resource group
- C. Web application firewall
- D. Security group

Answer: D

Explanation:
Comprehensive and Detailed Explanation
AWSSecurity Groupsact as the primary stateful firewalls for EC2 instances.
To restrict SSH (TCP/22) to a single host (20.20.20.20/32), aSecurity Groupmust be configured with:
* Inbound rule: TCP 22
* Source: 20.20.20.20/32
ACLs operate at the subnet level but are not used for instance-specific SSH restrictions.
WAF controls HTTP/HTTPS traffic, not SSH.
Resource groups only organize cloud assets.
Thus,Bis the correct solution.

NEW QUESTION # 187
The main purpose of using IPsec VPN for WAN connectivity is to:

- A. Simplify network management
- B. Offer a dedicated physical connection to the internet
- C. Increase the data transfer speed
- D. Provide a secure encrypted tunnel over the internet

Answer: D

NEW QUESTION # 188
Which of the following is NOT a purpose of implementing ACLs in network security?

- A. To restrict access to network resources
- B. To define routing protocols
- C. To filter network traffic
- D. To provide a layer of security

Answer: B

NEW QUESTION # 189
A network architect must design a solution for implementing virtualization functions. The main goal is to ensure network reliability and reduce downtime by considering the network operational team's requirements:
* The solution must providereal-time network-state visibility.
* The solution must supportautomated rollback in the event of configuration errors.
* The solution must allowefficient troubleshooting and diagnostics.
Which action must the team take to achieve the goal?

- A. Implement CLI NED to define network-virtualization template and package templates to automate the service lifecycle.
- B. Implement service modeling to define network services and NSO CLI for troubleshooting and diagnostics.
- C. Implement CLI NED to monitor the network state and manually rollback configurations in case of errors.
- D. Implement virtualization service modeling to provide network automation for the service lifecycle and NSO CLI to provide real-time network-state visibility.

Answer: D

Explanation:
Comprehensive and Detailed Explanation
For virtualization functions and operational reliability, the architecture must leverageCisco NSO (Network Services Orchestrator)capabilities. NSO provides:
* Transactional service modeling
* Automatic rollbackwhen any step of a transactional deployment fails
* Real-time network-state visibilityvia NSO CLI and live device synchronization
* End-to-end service lifecycle automation
Among the options:
Why B is correct
* "Virtualization service modeling" fits NSO's core design principle: model the service, not individual devices.
* NSO's CLI providesstate visibility, operational introspection, transaction logs, and commit details.
* NSO's transactional engine providesautomatic rollbackupon any device or service failure.
* This option capturesfull lifecycle automation,real-time state visibility, andreliability, exactly as required.
Why others are incorrect
* A: CLI NED alone does not provide real-time state visibility or automated rollback; manual rollback contradicts requirements.
* C: Only focuses on service modeling + CLI, but doesnotinclude rollback or lifecycle automation.
* D: Templates alone do not ensure rollback or real-time operational state.

NEW QUESTION # 190
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The Cisco 300-540 certification exam offers a great opportunity to advance your career. With the Designing and Implementing Cisco Service Provider Cloud Network Infrastructure certification exam beginners and experienced professionals can demonstrate their expertise and knowledge. After passing the Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) exam you can stand out in a crowded job market. The 300-540 certification exam shows that you have taken the time and effort to learn the necessary skills and have met the standards in the market.

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