

Cisco 300-540 Exam | Reliable 300-540 Exam Questions - Useful Tips & Questions for your 300-540 Learning

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APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
B.Tech Degree S8 (R, S) / S6 (PT) (R, S) Examination May 2024 (2019 Scheme)

Course Code: ECT402
Course Name: WIRELESS COMMUNICATION
Max. Marks: 100 Duration: 3 Hours

PART A
Answer all questions, each carries 3 marks.

1. What is meant by frequency reuse in a cellular system. (3)
2. What are the different types of interferences in Cellular system? Explain. (3)
3. How does multipath propagation cause small scale fading? (3)
4. Define Ergodic capacity in the context of wireless communication systems and explain its significance. (3)
5. Name the multicarrier modulation scheme which completely eliminates the issues due to ISI. What is the principle /technique applied? (3)
6. Write the expression for bit error probability in BPSK. Name the terms involved. (3)
7. What are the different types of Diversity in wireless communication? (3)
8. Differentiate between linear and nonlinear equalizers. Give examples for each (3)
9. How does the spherical nature of the earth affect ground wave propagation? (3)
10. Two aircrafts are flying at altitudes of 3 Km and 5 Km respectively. What is the maximum possible distance along the surface of the earth over which they can have effective point to point communication? (Use effective radius of earth with $K=4/3$) (3)

PART B
Answer any one full question from each module, each carries 14 marks.

Module I

11. a) Name any two methods to improve capacity in a cellular system. Explain the features with diagrams. (8)
b) Define trunking and grade of service with relevant formulae. (6)

OR

12. a) Compare the important features of 1G,2G, 3G and 4G systems (10)

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Cisco 300-540 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none">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 SRMPLS, ACI-based connectivity, and pseudowire architectures supporting cloud-to-cloud and cloud-to-edge communication.

Topic 2	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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.
Topic 5	<ul style="list-style-type: none"> 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.

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Our desktop Cisco 300-540 practice exam software is designed for all those candidates who want to learn and practice in the actual Designing and Implementing Cisco Service Provider Cloud Network Infrastructure (300-540) exam environment. This desktop practice exam software completely depicts the Cisco 300-540 Exam scenario with proper rules and regulations so you can practice all the hurdles and difficulties.

Cisco Designing and Implementing Cisco Service Provider Cloud Network Infrastructure Sample Questions (Q90-Q95):

NEW QUESTION # 90

A Virtual Network Function (VNF) is used to:

- A. Replace traditional network hardware with software
- B. Physicalize software functions
- C. Decrease network flexibility
- D. Increase the physical network functions

Answer: A

NEW QUESTION # 91

Which of the following is used to restrict access to network resources through policies?

- A. MACSEC
- B. **ACL**
- C. BGP flowspec
- D. TACACS

Answer: B

NEW QUESTION # 92

Direct Connect offers which of the following advantages over traditional internet connections?

- A. **Increased security**
- B. Higher latency
- C. **More consistent network performance**
- D. Reduced bandwidth

Answer: A,C

NEW QUESTION # 93

□ Refer to the exhibit. An engineer must configure an IPsec VPN connection between site 1 and site 2. The ISAKMP policy for the phase 1 negotiations of the tunnel must use AES and SHA-256. This configuration was applied to both PE routers; however, the tunnel fails to come up:

```
crypto isakmp policy 10
  encryption 3des
  hash md5
  authentication pre-share
  group 12
```

Which two commands must be run on router PE1 to resolve the issue? (Choose two.)

- A. hash aes
- B. encryption sha256
- C. group 10
- D. **hash sha256**
- E. **encryption aes**

Answer: D,E

Explanation:

Phase 1 of an IPsec tunnel (ISAKMP/IKE) must have matching proposals on both peers for:

- * Encryption algorithm
- * Hash (integrity) algorithm
- * Authentication method
- * DH group

The requirement states that AES and SHA-256 must be used. The current configuration uses:

- * encryption 3des # incorrect (must be AES)
- * hash md5 # incorrect (must be SHA-256)

To meet the requirement, we must modify the ISAKMP policy:

```
crypto isakmp policy 10
  encryption aes # change 3DES to AES
  hash sha256 # change MD5 to SHA-256
  authentication pre-share
  group 12
```

Therefore, the necessary commands on PE1 are:

- * encryption aes# optionB
- * hash sha256# optionE

Options C and D are invalid syntax (encryption sha256 and hash aes are not supported). Changing the DH group (A) is not required by the problem statement and would not by itself fix the mismatch related to encryption and hash algorithms.

NEW QUESTION # 94

Carrier-neutral facilities offer connectivity options to cloud providers through which of the following? (Choose two)

- A. Public internet gateways
- B. Dial-up connections
- C. Dedicated leased lines
- D. Direct connect services

Answer: C,D

NEW QUESTION # 95

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