

# 300-740 Exam Lab Questions | Free Sample 300-740 Questions

**Bihar Engineering University, Patna**  
**B. Tech 7<sup>th</sup> Semester Examination, 2024**

Course: B. Tech      Code: 104711      Subject: Information and Coding Theory      Time: 03 Hours  
 Full Marks: 70

**Instructions:-**  
 (i) The marks are indicated in the right-hand margin.  
 (ii) There are NINE questions in this paper.  
 (iii) Attempt FIVE questions in all.  
 (iv) Question No. 1 is compulsory.

- Q.1** Choose the correct option / answer the following (Any seven question only): [2 x 7 = 14]
- (a) In information theory, which of the following is true about divergence (relative entropy)?
- (i) Divergence is always negative.
  - (ii) Divergence is equal to mutual information.
  - (iii) Divergence is zero if two distributions are identical.
  - (iv) Divergence measures the correlation between two random variables.
- (b) Which of the following describes the Shannon-Hartley theorem?
- (i) The maximum rate of information transfer is given by  $C = 1 - H(p)$ .
  - (ii) The capacity of a channel with bandwidth  $B$  and signal-to-noise ratio  $SNR$  is  $C = B \log_2(1 + SNR)$ .
  - (iii) The capacity of a noiseless channel is infinite.
  - (iv) Channel coding cannot achieve reliable transmission.
- (c) Which coding technique ensures an optimal prefix-free code when symbol probabilities are powers of  $1/2^k$ ?
- (i) Shannon-Fano coding.
  - (ii) Arithmetic coding.
  - (iii) Huffman coding.
  - (iv) Run-length coding.
- (d) What is the purpose of the generator matrix  $G$  in a linear block code?
- (i) It checks for errors in the received codeword.
  - (ii) It generates codewords from message bits.
  - (iii) It determines the minimum distance of the code.
  - (iv) It detects erasure errors.
- (e) In the context of BCH codes, which of the following is true about the error locator polynomial?
- (i) It is used to identify the positions of errors in the received codeword.
  - (ii) It is always of degree  $t$  in BCH codes.
  - (iii) It is used to calculate the syndromes of the received word.
  - (iv) It can only be found using the Berlekamp algorithm.
- (f) Which of the following is a key feature of Turbo codes?
- (i) They use multiple convolutional encoders and a single decoder.
  - (ii) They rely on interleaving to improve decoding performance.
  - (iii) They are primarily used for error correction in block codes.
  - (iv) They are decoded using a sequential decoding algorithm.
- (g) Which of the following is the key feature of Hamming codes?
- (i) They are cyclic codes capable of correcting multiple errors.
  - (ii) They are perfect codes capable of correcting up to two errors.
  - (iii) They are Reed-Solomon codes used for burst error correction.
  - (iv) They are linear codes that can correct single-bit errors.

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## Cisco 300-740 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> <li>Threat Response: This section of the exam measures skills of Incident Response Engineers and focuses on responding to threats through automation and data analysis. It covers how to act based on telemetry and audit reports, manage user or application compromises, and implement response steps such as containment, reporting, remediation, and reinstating services securely.</li> </ul>
Topic 2	<ul style="list-style-type: none"> <li>Cloud Security Architecture: This section of the exam measures the skills of Cloud Security Architects and covers the fundamental components of the Cisco Security Reference Architecture. It introduces the role of threat intelligence in identifying and mitigating risks, the use of security operations tools for monitoring and response, and the mechanisms of user and device protection. It also includes strategies for securing cloud and on-premise networks, as well as safeguarding applications, workloads, and data across environments.</li> </ul>

Topic 3	<ul style="list-style-type: none"> <li>• <b>Network and Cloud Security:</b>This section of the exam measures skills of Network Security Engineers and covers policy design for secure access to cloud and SaaS applications. It outlines techniques like URL filtering, app control, blocking specific protocols, and using firewalls and reverse proxies. The section also addresses security controls for remote users, including VPN-based and application-based access methods, as well as policy enforcement at the network edge.</li> </ul>
Topic 4	<ul style="list-style-type: none"> <li>• <b>Visibility and Assurance:</b> This section of the exam measures skills of Security Operations Center (SOC) Analysts and focuses on monitoring, diagnostics, and compliance. It explains the Cisco XDR solution, discusses visibility automation, and describes tools for traffic analysis and log management. The section also involves diagnosing application access issues, validating telemetry for behavior analysis, and verifying user access with tools like firewall logs, Duo, and Cisco Secure Workload.</li> </ul>
Topic 5	<ul style="list-style-type: none"> <li>• <b>Industry Security Frameworks:</b> This section of the exam measures the skills of Cybersecurity Governance Professionals and introduces major industry frameworks such as NIST, CISA, and DISA. These frameworks guide best practices and compliance in designing secure systems and managing cloud environments responsibly.</li> </ul>
Topic 6	<ul style="list-style-type: none"> <li>• <b>SAFE Architectural Framework:</b> This section of the exam measures skills of Security Architects and explains the Cisco SAFE framework, a structured model for building secure networks. It emphasizes the importance of aligning business goals with architectural decisions to enhance protection across the enterprise.</li> </ul>
Topic 7	<ul style="list-style-type: none"> <li>• <b>User and Device Security:</b> This section of the exam measures skills of Identity and Access Management Engineers and deals with authentication and access control for users and devices. It covers how to use identity certificates, enforce multifactor authentication, define endpoint posture policies, and configure single sign-on (SSO) and OIDC protocols. The section also includes the use of SAML to establish trust between devices and applications.</li> </ul>

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## Cisco Designing and Implementing Secure Cloud Access for Users and Endpoints Sample Questions (Q180-Q185):

### NEW QUESTION # 180

A recent InfraGard news release indicates the need to establish a risk ranking for all on-premises and cloud services. The ACME Corporation already performs risk assessments for on-premises services and has applied a risk ranking to them. However, the cloud services that were used lack risk rankings. What Cisco Umbrella function should be used to meet the requirement?

- A. URL Categorization by Talos
- **B. App Discovery**
- C. Domain Name Server Filtering
- D. Secure Internet Gateway

**Answer: B**

Explanation:

The App Discovery function in Cisco Umbrella enables organizations to identify cloud applications in use across their environment, including unsanctioned or shadow IT services. This is crucial for risk assessments and ranking cloud services based on their risk profile.

App Discovery analyzes DNS and web traffic to detect SaaS applications and assigns a risk score to each app based on industry best practices and Cisco Talos threat intelligence.

It provides visibility into cloud service usage and supports decisions about which applications should be allowed, restricted, or blocked.

# Reference (Cisco SCAZT Guide):

Section: Visibility and Assurance

Topic: Cisco Umbrella > App Discovery

Key Statement: "App Discovery helps identify cloud applications in use and provides risk ratings for each, allowing organizations to apply governance policies to risky or unsanctioned cloud services." Pages: 84-86

#### NEW QUESTION # 181

DISA's role in cloud security architecture involves:

- A. Setting standards for defense-related IT and cybersecurity
- B. Ensuring cloud services are accessible worldwide
- C. Managing cloud storage solutions
- D. Providing entertainment services

**Answer: A**

#### NEW QUESTION # 182

To effectively manage a compromised system, it's important to first \_\_\_\_\_ the threat to stop its spread.

- A. amplify
- B. contain
- C. ignore
- D. broadcast

**Answer: B**

#### NEW QUESTION # 183

The use of Cisco Secure Workload can facilitate:

- A. The enforcement of granular security policies at the workload level
- B. An increase in the manual workload for IT staff
- C. A decrease in the security of workloads
- D. The complete removal of network security measures

**Answer: A**

#### NEW QUESTION # 184

Cloud security attack tactics often include:

- A. Social media marketing strategies
- B. Exploiting misconfigured cloud storage
- C. Enhancing cloud service offerings
- D. Physical security breaches

**Answer: B**

#### NEW QUESTION # 185

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