

# Review DA0-002 Guide | DA0-002 Latest Exam Format

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**CBCS SCHEME**

USN        15CS743

Seventh Semester B.E. Degree Examination, Dec.2019/Jan.2020  
Information and Network Security

Time: 3 hrs. Max. Marks: 80  
Note: Answer any FIVE full questions, choosing ONE full question from each module.

**Module-1**

1. a. With a neat diagram, explain crypto as a block box. (05 Marks)  
b. Using vernam cipher encrypt the Plaintext "builder" to cipher text and then deciphered to plaintext using the key  
110 101 110 101 111 100 000 101 110 000  
And the corresponding binary representation of letter as below table  

Letter	a	b	i	k	f	P	s	t
Binary	000	001	010	011	100	101	110	111

 (06 Marks)  
c. Explain the taxonomy of cryptography. (05 Marks)

**OR**

2. a. Write a brief note on double transposition with an example. (05 Marks)  
b. Explain the taxonomy of cryptanalysis. (06 Marks)  
c. Write a short notes on:  
i) Project VENONA  
ii) Codebook cipher. (05 Marks)

**Module-2**

3. a. What is cryptographic hash function? What are the needs that cryptographic hash function must provide? (06 Marks)  
b. With a diagram, explain Tiger hash outer round and inner round for  $P_m$ . (06 Marks)  
c. What are the techniques used in information hiding? Explain. (04 Marks)

**OR**

4. a. With a neat diagram, explain secret sharing in detail and its types. (06 Marks)  
b. With an example, explain HMAC function in detail. (06 Marks)

**Module-3**

5. a. Explain different types of freshness mechanisms. (08 Marks)  
b. Explain the idea behind the dynamic password scheme. With a neat diagram, explain the example of dynamic password scheme. (08 Marks)

**OR**

6. a. List and explain the stages and challenges of the protocol design. (06 Marks)  
b. With a neat diagram, explain the reflection attack against protocol - 3. (05 Marks)  
c. What are the typical AKE protocol goals? Explain. (05 Marks)

1 of 2

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## CompTIA Data+ Exam (2025) Sample Questions (Q120-Q125):

### NEW QUESTION # 120

A data analyst is evaluating all conditions in a query. Which of the following is the best logical function to accomplish this task?

- A. AND
- B. NOT
- C. IF
- D. OR

**Answer: A**

Explanation:

This question falls under the Data Analysis domain, focusing on SQL logical functions for query evaluation.

The task is to evaluate "all conditions," implying multiple conditions must be true together.

- \* OR (Option A): OR returns true if any condition is true, not ensuring all conditions are met.
- \* NOT (Option B): NOT negates a condition, not suitable for combining multiple conditions.
- \* AND (Option C): AND requires all conditions to be true, which aligns with evaluating "all conditions" in a query.
- \* IF (Option D): IF is a conditional function for decision-making, not for evaluating multiple conditions together.

The DA0-002 Data Analysis domain includes "applying the appropriate descriptive statistical methods using SQL queries," and AND is the best logical function for ensuring all conditions are met.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 3.0 Data Analysis.

### NEW QUESTION # 121

Which of the following best describes the function of a data type?

- A. To differentiate the real value of the field in its context
- B. To provide a generic identifier for files used in analysis
- C. To identify the program needed to open a file
- D. To make the addition of individual records simpler

**Answer: A**

Explanation:

This question falls under the Data Concepts and Environments domain, focusing on the purpose of data types in data management. Data types define how data is stored and interpreted.

- \* To provide a generic identifier for files used in analysis (Option A): Data types apply to fields within datasets, not files.
- \* To identify the program needed to open a file (Option B): File extensions (e.g., .csv) identify programs, not data types.
- \* To differentiate the real value of the field in its context (Option C): Data types (e.g., integer, string, date) define how a field's value is interpreted (e.g., "123" as a number vs. text), ensuring its real meaning in context, making this the correct answer.
- \* To make the addition of individual records simpler (Option D): Data types don't directly simplify record addition; they ensure proper data handling.

The DA0-002 Data Concepts and Environments domain includes understanding "data schemas and dimensions," and data types ensure fields are interpreted correctly in their context.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 1.0 Data Concepts and Environments.

### NEW QUESTION # 122

Which of the following best describes a characteristic of a Boolean?

- A. Must be system-created
- B. Must be numeric
- C. Must be a character
- D. Must be two values only

**Answer: D**

### NEW QUESTION # 123

Which of the following best enables the retrieval and manipulation of data that is stored in a relational database?

- A. XML
- B. Excel
- C. SQL
- D. JavaScript

**Answer: C**

Explanation:

This question pertains to the Data Concepts and Environments domain, focusing on tools for interacting with relational databases. The task is to identify the best method for retrieving and manipulating data.

- \* XML (Option A): XML is a data format, not a language for retrieving or manipulating database data.
- \* SQL (Option B): SQL (Structured Query Language) is specifically designed for querying and manipulating data in relational databases (e.g., SELECT, UPDATE), making it the best choice.
- \* Excel (Option C): Excel can analyze data but isn't designed for direct database manipulation.
- \* JavaScript (Option D): JavaScript is a programming language for web development, not optimized for relational database operations.

The DA0-002 Data Concepts and Environments domain includes understanding "different types of databases," and SQL is the standard language for relational database operations.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 1.0 Data Concepts and Environments.

### NEW QUESTION # 124

Which of the following is found in metadata?

- A. Variable types
- B. Data lineage
- C. Transformations
- D. Syntax

**Answer: A**

Explanation:

This question pertains to the Data Concepts and Environments domain, focusing on the content of metadata.

Metadata describes data attributes, and the task is to identify what it typically includes.

- \* Transformations (Option A): Transformations (e.g., data cleaning steps) are part of data lineage, not metadata.
- \* Data lineage (Option B): Data lineage tracks data flow and transformations, which is related to metadata but not a direct component.
- \* Syntax (Option C): Syntax refers to code structure, not a metadata component.
- \* Variable types (Option D): Metadata includes information about data fields, such as variable types (e.g., integer, string), which is a standard component.

The DA0-002 Data Concepts and Environments domain includes understanding "data schemas and dimensions," and metadata typically contains details like variable types to describe the dataset.

Reference: CompTIA Data+ DA0-002 Draft Exam Objectives, Domain 1.0 Data Concepts and Environments.

### NEW QUESTION # 125

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