CDMP Exam Preparation No3   Total points 100/100

✓ OLAP, conceptually illustrates as a? *   1/1

○ Recursive structure

○ Hierarchical structure

◉ Cube   ✓

○ Multi-columnar structure

○ Relational table

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
OLAP, conceptually illustrates as a Cube.

✓ HTTPS indicates that the website is? *   1/1

◉ Equipped with a security layer   ✓

○ Equipped with third party cookies

○ Equipped with an underlying database

○ Equipped with a foreign language translator

○ Equipped with a content management system

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
HTTPS indicates that the website is: Equipped with a security layer

---

✓ An umbrella term for any classification or controlled vocabulary is: *   1/1

◉ Taxonomy   ✓

○ Metadata

○ Data model

○ English

○ Dictionary

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
An umbrella term for any classification or controlled vocabulary is: Taxonomy

---

✓ The main part of a data vault that houses and integrates data from   *1/1
   various source systems is referred to as?

○ Metrics mart

○ Information mart

○ Business data vault

◉ Raw data vault   ✓

○ Persisted staging area

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The main part of a data vault that houses and integrates data from various source systems is referred to as: Raw data vault.

✓ The ability to re-establish service after an interruption and correct errors caused by unforeseen events or component failures is called? 1

○ Reliability

○ Serviceability

● Recoverability

○ All of the above

○ Manageability

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The ability to re-establish service after an interruption and correct errors caused by unforeseen events or component failures is called Recoverability

✓ What is the goal of collecting and documenting business rules? * 1

○ To identify potential sources of data for the Data Integration effort

● To identify the requirements for the Data Quality

○ To reuse existing Data Integration solutions

○ To design user-experience

○ To direct when to manually trigger events and alerts

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
goal of collecting and documenting business rules: To identify the requirements for the DQ.

✓ The data operations team assures that data is recoverable by which of the following methods? 1

○ Making sure the disks are checked regularly for write errors

● Defining and executing the data recovery plan

○ Guaranteeing the applications take proper exports of the data

○ Maintaining a test, development, and production environment

○ Analyzing database error logs

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The data operations team assures that data is recoverable by Defining and executing the data recovery plan.

✓ A sandbox is a type of database environment used for? * 1

○ Production backups

○ Low-budget projects

○ Remote users

● Proofs of concept and to test hypotheses

○ User acceptance testing

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A sandbox is a type of database environment used for Proofs of concept and to test hypotheses.

✓ **What is the benefit of using role groups to implement Data Security policies?**

○ It simplifies revoking individual permissions from an individual user

○ It allows users to by typecast by the administrator

◉ It reduces the amount of effort to assign access rights to users if they inherit rights from their group

○ It allows for iterative reporting of user access

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the benefit of using role groups to implement Data Security policies: It reduces the amount of effort to assign access rights to users if they inherit rights from their group

---

✓ **The DAMA Wheel contains?** *

○ Data Strategy initiatives

○ Maturity model dimensions

○ Data Management deliverables

○ Data Management processes

◉ Knowledge areas

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The DAMA Wheel contains Knowledge areas

✓ **To answer questions like "What does this report mean?" or "What does this metric mean?", the data warehouse/BI team should focus on?**

○ Conceptual data model

○ Data lineage

◉ End-to-end metadata

○ Predictive and prescriptive analytics

○ Data Quality applications

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
To answer questions like "What does this report mean?" or "What does this metric mean?", the data warehouse/BI team should focus on: End-to-end metadata

---

✓ **What is the difference between a Data Security policy and an information technology security policy?**

○ Information technology security policies are defined by external standards

○ There is no difference

◉ Data Security policies are more granular in nature and take a data-centric approach

○ The Data Governance Council should have no role in Data Security

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the difference between a Data Security policy and an information technology security policy: Data Security policies are more granular in nature and take a data-centric approach

✓ **As part of the reference Data Stewardship process, it is helpful to capture basic data about each reference data set. Which answer best describes which data should be captured?**

○ Maturity models that access the organization's readiness to accept Data Governance

● Steward name, originating organization, expected frequency of updates, and processes using the reference data

○ Metrics to quantify reference data's value to the organization

○ Enterprise Architecture, programming logic, workflows, and ETL relating to any reference data

○ The names of everyone who is a business or technical user of the reference data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
As part of the reference Data Stewardship process, it is helpful to capture basic data about each reference data set. Steward name, originating organization, expected frequency of updates, and processes using the reference data best describes which data should be captured.

✓ **Which of the following is NOT true of a super-type or sub-type entity relationship?**

○ A sub-type inherits all attributes and relationships of the super-type

● Sub-type entities must be mutually exclusive

○ Attributes and relationships shared by some, but not all, sub-types are modeled with the sub-types

○ The subtype relationships should have a discriminator attribute

○ Attributes and relationships shared by all sub-types are modeled with the super-type

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the following is NOT true of a super-type or sub-type entity relationship: Sub-type entities must be mutually exclusive

---

✓ **What organization structure should set the overall direction for Data Governance?**

● Data Governance Council

○ PMO

○ IT Leadership Team

○ Data Quality Board

○ Data Governance Office

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DG Council should set the overall direction for DG.

✓ **When discussing transforming a logical data model to a physical data model, the breaking apart of a table or file horizontally or vertically is what?**

○ Denormalization

○ Solidity

○ Indexing

● Partitioning

○ Substitution

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When discussing transforming a LDM to a PDM, the breaking apart of a table or file horizontally or vertically is: Partitioning

✓ A RACI matrix is a useful tool to support the _____ in an outsourced arrangement?

◉ Segregation of duties

○ Service level agreement

○ Preventing unauthorized access, manipulation, or use of data and information

○ Transfer of access controls

○ Alignment of business goals

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A RACI matrix is a useful tool to support the Segregation of duties in an outsourced arrangement.

✓ A best practice for BI monitoring and tuning is to define and display which set of customer-facing satisfaction metrics?

○ Regular survey of DW-BIM customers satisfaction

◉ All of the above

○ Average query response time

○ Usage statistics and patterns

○ Number of users per day/week/month

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A best practice for BI monitoring and tuning is to define and display a set of customer-facing satisfaction metrics including:
o Average query response time
o Number of users per day/week/month
o Regular survey of DW-BIM customers satisfaction
o Usage statistics and patterns.

✓ What technique will identify the system of record for the data? *

○ Collection of business rules

◉ Analysis of lineage

○ Data discovery

○ Data profiling

○ Definition of Data Integration and Lifecycle requirements

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
technique will identify the system of record for the data: Analysis of lineage

---

✓ Plant equipment is an example of? *

○ Reference data

○ Transaction data

○ Inverted data

◉ Master data

○ None of these

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Plant equipment is an example of Master data.

✓ The need to manage data movement efficiently is a primary driver for? *

○ All of the above

○ Data Warehousing and Business Intelligence

○ Document and Content Management

○ Data Storage and Operations

◉ Data Integration and Interoperability

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The need to manage data movement efficiently is a primary driver for Data Integration and Interoperability

✓ The requirement to enter a username, a password and then a code sent to an authentication app is called:

○ 3-factor authentication.

◉ 2-factor authentication.

○ biometric authentication.

○ proactive authentication.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The requirement to enter a username, a password and then a code sent to an authentication app is called: 2-factor authentication.

✓ How do Data Management professionals maintain the commitment of key stakeholders to the Data Management initiative?

◉ Continuous communication, education, and promotion of the importance and value of data and information assets

○ Weekly email reports showing metrics on Data Management progress or lack thereof

○ It is not necessary, as the stakeholders signed up at the beginning of the program

○ Rely on the stakeholder group to be self-sustaining

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DM professionals maintain the commitment of key stakeholders to the DM initiative by continuous communication, education, and promotion of the importance and value of data and information assets.

✓ Which definition is most accurate for Data Storage and Operations Management?

○ Managing shared data to meet organizational goals, reduce risks associated with data redundancy, ensure higher quality, and reduce the costs of data integration

○ Identifying the data needs of the enterprise (regardless of structure) and designing and maintaining the master blueprints to meet those needs

○ The process of discovering, analyzing, and scoping data requirements, and then representing and communicating these data requirements in a precise form called the data model

◉ The design, implementation, and support of stored data to maximize its value

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Storage and Operations Management: The design, implementation, and support of stored data to maximize its value

✓ Reference data _____? *

○ Is also known as external data

○ Is more difficult to govern than master data

○ Is free

○ Usually has more attributes than master data

◉ Usually has fewer attributes than master data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Reference data Usually has fewer attributes than master data

✓ What is true with regard to the information presented in the DMBoK? *

○ All the above

○ B. It's not just about technology

◉ All but A are correct

○ D. Organization and culture play an important part

○ A. Data Management exists within a vacuum

○ C. Many environmental elements cross all of the disciplines

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
With regard to the information presented in the DMBoK the following is true: It's not just about technology; Many environmental elements cross all of the disciplines; Organization and culture play an important part.

✓ According to the DMBoK2, which items are NOT a consideration in a data valuation?

○ Cost of obtaining and storing data

○ Impact to the organization if data were missing

○ What the data could be sold for

○ Benefits of higher quality data

◉ How much we can be ransomed for by a malware attack

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
How much we can be ransomed for by a malware attack is NOT a consideration in a data valuation

---

✓ Which of the following activities are performed by data operations staff? *

◉ Implement and control database environments, plan for data retention, keep track of database licenses, monitor and tune database performance

○ Grant access to tables and rewrite SQL statements

○ Manage the tape libraries

○ Clean data that is of bad quality

○ Tune the file systems

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
data operations staff activities include Implement and control database environments, plan for data retention, keep track of database licenses, monitor and tune database performance.

✓ Critical to the incremental development of the data warehouse is? *

○ An agile development team

○ A strong capacity management process

○ A strong incident management process

⦿ A strong release management process

○ The assurance to include velocity, variety, and veracity measurements

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Critical to the incremental development of the data warehouse is: A strong release management process

---

✓ Components of logical data models include: *

○ Keys

⦿ All of the above

○ Attributes

○ Entities

○ Relationships

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Components of LDMs include:
o Attributes
o Keys
o Relationships
o Entities

✓ Which of the following statements about business rules is FALSE? *

○ All business rules must be identified prior to the start of the Data Modeling process

○ Action rules are difficult to define in a data model

○ Data rules constrain how data relates to other data

⦿ Data rules cannot be shown on a data model

○ Action rules are instructions on what to do when data elements contain certain values

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data rules CAN be shown on a data model

✓ A reason to produce a data model is? *

⦿ All of the above

○ All but C

○ A. To capture business requirements

○ D. To avoid the late discovery of missed requirements

○ B. To create a bridge between business and IT

○ C. To set context for enterprise projects

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A reason to produce a data model is:
o To capture business requirements
o To create a bridge between business and IT
o To set context for enterprise projects
o To avoid the late discovery of missed requirements

✓ _____ allow all values that are between a minimum and maximum
value. For example, Order Delivery Date must be between Today's Date
and three months in the future.

○ Range domains

○ Format domains

○ Veracity domains

○ None of the above

○ List domains

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
*Range domains allow all values that are between a minimum and maximum value. For
example, Order Delivery Date must be between Today's Date and three*

✓ What type of key identifies an entity/table for the system, may be
"natural" or "surrogate," and can also be composite?

○ Alternate

○ Inverted

● Primary

○ Foreign

○ None of the Above.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
*Primary key identifies an entity/table for the system, may be "natural" or "surrogate," and
can also be composite*

✓ Which of the following is a Meta-Data scheme focused specifically on
documents?

● Preservation Meta-Data

○ Administrative Meta-Data

○ Descriptive Meta-Data

○ Structural Meta-Data

○ Business Meta-Data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Preservation Meta-Data is a Meta-Data scheme focused specifically on documents.

✓ In a non-identifying relationship? *

○ The foreign key of the parent entity migrates to the child entity

○ The primary key of the child entity is concatenated

● The primary key of the parent entity becomes a foreign key in the child entity

○ The primary key of the child entity is removed

○ The primary key of the parent entity becomes part of the primary key of the child
entity

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
*In a non-identifying relationship, the primary key of the parent entity becomes a foreign key
in the child entity*

✓ The highest level of data model types is the? *

○ Dimensional model

○ Database model

● Conceptual model

○ Physical model

○ Logical model

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The highest level of data model types is Conceptual model

✓ Examples of data model components are? *

○ Iteration, Decision, Input, Output

○ Files, Folders, Links

○ CPU, GPU, RAM, ROM

○ Monitor, Keyboard, Mouse, Disk

● Keys, Relationships, Attributes, Entities, Facts

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Examples of data model components are: Keys, Relationships, Attributes, Entities, Facts

✓ Communicating the value of Data Governance can be approached in a number of ways. Which of the following approaches is NOT a recognized way of doing this?

○ Maintaining an intranet website

○ Promoting participation in a DM forum or community

○ Publishing a regular newsletter via hardcopy or email

○ Providing only negative communications on ongoing data issues to key executive stakeholders

● Creating a series of "elevator pitches" for the appropriate audience

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
NOT a recognized way to communicate the value of DG:Creating a series of "elevator pitches" for the appropriate audience.

✓ An effective Data Security Strategy needs to consider _____ as well as technical security?

● Physical (devices, hard copy)

○ Functional (timing, structures)

○ Operational (function, flexibility)

○ Conceptual (metadata, Business Glossary)

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
An effective Data Security Strategy needs to consider Physical (devices, hard copy) as well as technical security.

✓ In data security, which of the following is not one of the four "A's": *

○ Audit

○ Authentication

○ Access

◉ Available

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In data security, Available is NOT one of the four "A's".

✓ What kind of interface is in place when systems are tightly coupled? *

○ An independent interface

◉ A synchronous interface

○ A user interface

○ A legacy interface

○ A batch interface

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
kind of interface is in place when systems are tightly coupled: A synchronous interface.

✓ Why is Data Management so important for organizations today? *

○ All but D

◉ All of the above

○ C. Tighter regulations across many industries

○ B. New product developments

○ D. To have a competitive advantage

○ A. The increase in data volumes

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DM is so important for organizations today because of: The increase in data volumes; New product developments; Tighter regulations across many industries; To have a competitive advantage

---

✓ For countries, is there an internationally recognized set of codes to use? *

○ Yes, the standards set are the codes used by your country's postal service

○ No, you should use whatever your organization wants to use

○ No, there is no internationally recognized set of codes because each country wants to develop their own

◉ Yes, ISO 3166 is the internationally standardized set of codes used by most organizations

○ No, organizations should develop their own set of codes to use because the data used internally

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
For countries, ISO 3166 is the internationally standardized set of codes used by most organizations.

✓ When defining your business continuity plan, which of the following should you consider doing?

○ Make sure that the data is retained sufficiently long, check that critical data is encrypted, check access rights.

○ Have the contracts in place to acquire new hardware in case of technical problems, define policies.

○ Determine the risk, probability and impact, check document backup frequency.

○ Write a report and discuss the required budget with management.

◉ Consider written policies and procedures, impact mitigating measures, required recovery time and acceptable amount of disruption, the criticality of the documents.

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When defining your business continuity plan, Consider written policies and procedures, impact mitigating measures, required recovery time and acceptable amount.

✓ Data is an organizational asset. What international standard is concerned with asset management?

○ ISO 25000

◉ ISO 55000/55001

○ ANSI 859

○ ISO 27001

○ ISO 8000

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
ISO 55000/55001 is an international standard is concerned with asset management

---

✓ The most common term for "entity" in the physical level of a model is? *

○ Primary key

○ Database

○ Index

◉ Table

○ Diagram

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The most common term for "entity" in the physical level of a model is: Table

---

✓ In 2009, ARMA International published GARP for managing records and information. GARP stands for:

○ Gregarious Archive of Recordkeeping Processes

○ Global Accredited Recordkeeping Principles

○ Generally Available Recordkeeping Practices

◉ Generally Acceptable Recordkeeping Principles

○ G20 Approved Recordkeeping Principles

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In 2009, ARMA International published GARP for managing records and information. GARP stands for: Generally Acceptable Recordkeeping Principles.

✓ In the Information Management Lifecycle, the Data Governance activity "Define the Data Governance Framework" is in which Lifecycle stage?

○ Specify

○ Create and acquire

○ Maintain and use

○ Enable

● Plan

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In the Information Management Lifecycle, the DG activity "Define the DG Framework" is in the Plan Lifecycle stage.

✓ A Content Distribution Network supporting a multi-national website is likely to use?

○ A database backup and restore solution

○ An archiving solution

○ An extract, transform, and load solution

● A replication solution

○ A records disposal solution

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A Content Distribution Network supporting a multi-national website is likely to use: A replication solution.

✓ _____is the ability for multiple systems to communicate through data that does not require processing on either side.

○ Data Governance

○ Document and Content Management

○ Data Integration

○ Data Warehousing and Business Intelligence

● Data Interoperability

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Interoperability is the ability for multiple systems to communicate through data that does not require processing on either side.

✓ Is the data model important in establishing Master Data Management? *

○ Only if Master Data Management needs to know the processing steps for all data

○ No, within a given source, data representing the same entity can be different

● Yes, Master Data Management needs consistent logical definitions

○ No, not if the data model is physically instantiated in multiple platforms

○ No, not if the organization has complex systems with multiple ways of capturing data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
data model is important in establishing Master DM because Master DM needs consistent logical definitions.

✓ In dimensional data models, which of these is NOT true regarding measures?

◉ Measures can always be added across all dimensions

○ Measures should be numeric and additive

○ Care must be taken if a measure is a snapshot figure

○ Measures are found in fact tables

○ The relationship could be an identifying relationship

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Measures Can NOT always be added across all dimensions

✓ Which statement best describes the relationship between documents and records?

○ Documents and records are the same thing

○ Documents are a subset of records

◉ Records are a subset of documents

○ Documents are written and records are audio

○ Documents and records are not related

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
statement best describes the relationship between documents and records: Records are subset of documents.

✓ Data Storage and Operations Management has different deliverables, such as?

○ Production database environments

◉ All of the above

○ Mechanisms for ensuring availability, integrity, and recoverability of data

○ Processes for implementation and changes to databases

○ Mechanisms for detecting and reporting errors

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Storage and Operations Management has different deliverables, such as: Production database environments; Mechanisms for ensuring availability, integrity, and recoverability of data; Mechanisms for detecting and reporting errors; Processes for implementation and changes to databases

---

✓ Reference and master data include the reconciliation and maintenance of core critical shared data in order to?

○ Discourage changes to the codes and values

○ Save space in the databases and keep only the most recent data

○ Make it easier to store data for the programmers and users

○ Inspect all data that is in production and get the business areas to certify that the data is correct

○ All of the above

◉ Enable consistent use across the systems of the most timely and relevant version of essential data

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Reference and master data include the reconciliation and maintenance of core critical shared data in order to: Enable consistent use across the systems of the most timely and relevant version of essential data

✓ Which of the following is NOT a Data Modeling style? *

○ UML

○ CHEN

○ ORM

○ IDEF1X

● CRUD

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
CRUD is NOT a Data Modeling style

✓ Data Security policies should be developed and communicated to ensure that _____?

○ External regulatory reviews and audits can be conducted efficiently

○ External consultants can be used effectively in implementation

● It is easier to comply than not to comply

○ Data that is not requested, orchestrated, or technology supported

○ Standards and templates can be reused from other organizations

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Security policies should be developed and communicated to ensure that It is easier to comply than not to comply

---

✓ Star and Snowflake are concepts of which Data Modeling schema? *

○ Fact-based

○ NoSQL

● Dimensional

○ Time-based

○ Object-oriented

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Star and Snowflake are concepts of Dimensional Data Modeling schema.

✓ Database monitoring tools measure key database metrics, such as? *

○ Capacity, availability, backup instances, and Data Quality

○ Create, read, normalization, and user access

○ Capacity, design, normalization, and user access

○ Create, read, update, and delete

● Capacity, availability, cache performance, and user statistics

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Database monitoring tools measure key database metrics, such as Capacity, availability, cache performance, and user statistics.

✓ In the PRISM acronym for database design principles, the letter 'S' stands for?

○ None of the above

○ Solidity

○ Safety

○ Soundness

◉ Security

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In the PRISM acronym for database design principles, the letter 'S' stands for Security

---

✓ In the relational data model, what is the best synonym for a "relation"? *

◉ Table

○ Row

○ Association

○ Tuple

○ Relationship

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In the relational data model, what the best synonym for a "relation" is: Table

---

✓ Dimension tables? *

○ Have few columns but many rows

○ Do not contain hierarchies

○ Contain measures

◉ Have many columns but few rows

○ Are the same as facts

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Dimension tables Have many columns but few rows

✓ The stated goals of Data Security Management are? *

◉ All of the above

○ B. Understand and comply with all relevant regulations and policies for privacy, protection, and confidentiality

○ C. Ensure that the privacy and confidentiality needs of all stakeholders are enforced and audited

○ A. Enable appropriate, and prevent inappropriate, access to enterprise data assets

○ All but C

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The stated goals of Data Security Management are:
o Enable appropriate, and prevent inappropriate, access to enterprise data assets
o Understand and comply with all relevant regulations and policies for privacy, protection, and confidentiality
o Ensure that the privacy and confidentiality needs of all stakeholders are enforced and audited.

✓ When discussing the Data Quality Management Cycle, what part of the cycle typically deals with: acting to resolve any identified issues to improve Data Quality and better meet business expectations?

○ Check

○ Do/Deploy

○ Proceed

○ Plan

● Act

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
When discussing the DQ Management Cycle, Act part of the cycle typically deals with: acting to resolve any identified issues to improve DQ and better meet business expectations.

✓ Which of these are increasingly driving legislation for information security and data privacy?

○ A desire for economic protectionism

○ A resistance to open data and transparency

○ An objective of making life more challenging for Information Management professionals

○ ANSI 859

● A recognition of ethical issues in Information Management

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A recognition of ethical issues in Information Management is driving legislation for information security and data privacy.

✓ In the conceptual data model an instantiation of a particular business entity is described as?

○ Row

○ Record

● Entity occurrence

○ Dataset

○ Rule

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In the CDM an instantiation of a particular business entity is described as: Entity occurrence

---

✓ A type of Master data architecture is: *

○ Hybrid

● All of the above

○ Registry

○ Virtualised

○ Repository

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Types of Master data architecture include:
o Hybrid
o Registry
o Virtualised
o Repository

✓ The implementation and administration of Data Security policies is
   primarily the responsibility of _____?

○ All staff

○ The CIO

● Security administrators

○ Knowledge workers

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The implementation and administration of Data Security policies is primarily the
responsibility of Security administrators

✓ Ontology is the study of? *

○ Knowledge

○ Existence

○ Beginning

● Being and existence

○ Reality

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Ontology is the study of: Being and existence.

✓ The Data Quality Management cycle has four stages. Three are Plan,
   Monitor, and Act. What is the fourth stage?

○ Manage

○ Reiterate

● Deploy

○ Prepare

○ Improve

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The DQ Management cycle has four stages. Three are Plan, Monitor, and Act. Deploy.

✓ Which of these does NOT characterize an effective data steward? *

○ He / She works in association with the Data Owner to protect and enhance the data
   assets under his or her control

○ Is a recognized subject matter expert in the data subject area / business domain
   that he or she is responsible for

● Is a highly experienced technical expert in a variety of data management
   disciplines & tools

○ He / She is an effective communicator

○ He / she works collaboratively across the organization with data stakeholders and
   others identifying data problems and issues

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
an effective data steward Is NOT a highly experienced technical expert in a variety of DM
disciplines & tools

✓ A Data Quality program should limit its scope to? *

○ The data most critical to the enterprise and its customers

○ The highest-profile program with the best benefits

○ The data that changes most often

○ The data that is of interest to the Chief Executive Officer

○ All the data stored in the enterprise

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A DQ program should limit its scope to: The data most critical to the enterprise and its customers.

✓ What is the role of the Data Governance Council in defining an information security policy?

○ The Data Governance Council should implement the Data Security policy

● The Data Governance Council should review and approve the high-level Data Security policy

○ A draft implementation roadmap with projects and action items

○ The Data Governance Council should define the Data Security policy

○ The Data Governance Council should have no role in Data Security

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the role of the DG Council in defining an information security policy: The DG Council should review and approve the high-level Data Security policy

✓ What is the difference between cardinality rules and data integrity rules? *

● Cardinality rules define the quantity of each entity instance that can participate in a relationship between two entities, and referential integrity rules ensure valid values

○ There is no difference. Cardinality rules and referential integrity rules are synonyms

○ Referential integrity rules quantify the relationships between two or more entities, and cardinality rules quantify the common attributes across entities

○ Referential integrity rules define the quantity of each entity instance that can participate in a relationship between two entities, and cardinality rules ensure valid values

○ Referential integrity rules only appear on a relational data model, and cardinality rules only appear on a dimensional data model

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the difference between cardinality rules and data integrity rules is: Cardinality rules define the quantity of each entity instance that can participate in a relationship between two entities, and referential integrity rules ensure valid values

✓ Implementing a Services-Oriented Architecture (SOA) will often use? *

○ Data Visualization tools

○ A Data Modeling tool

○ ETL servers

○ A data lake

● An enterprise services bus

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Implementing a Services-Oriented Architecture (SOA) will often use: An enterprise services bus.

✓ which of the following is NOT a goal of Data Management? *

○ Ensuring the privacy and confidentiality of stakeholder data

○ Preventing unauthorized access, manipulation, or use of data and information

○ Ensuring the quality of data and information

○ Capturing, storing, protecting, and ensuring the integrity of data assets

◉ Understanding the process needs of the enterprise

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Understanding the process needs of the enterprise is NOT a goal of DM

✓ Data Modeling is? *

◉ The process of discovering, analyzing, and scoping data requirements, and then representing and communicating these data requirements in a precise form called the data model. This process is iterative and may include a conceptual, logical, and physical model

○ All of the above

○ The planning, implementation, and control activities for the lifecycle management of data and information found in any form or medium

○ None of the above

○ The exercise of authority, control, and shared decision-making (planning, monitoring, and enforcement) over the management of data assets

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data Modeling is: The process of discovering, analyzing, and scoping data requirements, and then representing and communicating these data requirements in a precise form called the data model. This process is iterative and may include a conceptual, logical, and physical model

---

✓ A document that stipulates the responsibilities and acceptable use of data to be exchanged, is commonly referred to as a?

○ Data Quality Assessment

◉ Data Sharing Agreement

○ Data Model

○ Project Charter

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
A document that stipulates the responsibilities and acceptable use of data to be exchanged, is commonly referred to as a Data Sharing Agreement.

✓ Which of these statements is true? *

○ Data Quality Management is the application of technology to data problems

○ Data Quality Management is a synonym for Data Governance

◉ Data Quality Management is a continuous process

○ Data Quality Management only addresses structured data

○ Data Quality Management is usually a one-off project

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DQ Management is a continuous process.

✓ "The percentage of enterprise computers having the most recent security patch installed" is a metric of which knowledge area?   1/1

○ Metadata Management

◉ Data Security

○ Data Warehousing and Business Intelligence

○ Data Quality

○ Data Storage and Operations

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
"The percentage of enterprise computers having the most recent security patch installed" is a metric of Data Security knowledge area

---

✓ What is accurate when discussing many-to-many relationships? *   1/1

○ There is often hidden business meaning in this relationship

○ While many-to-many relationships are OK in a Conceptual Data Model, they should be "resolved" in a logical data model

◉ All of the above

○ All but A

○ There are usually additional attributes discovered in the intersection entity

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
when discussing many-to-many relationships, the following is accurate:
o While many-to-many relationships are OK in a CDM, they should be "resolved" in a LDM
o There is often hidden business meaning in this relationship
o There are usually additional attributes discovered in the intersection entity

---

✓ In a recursive relationship? *   1/1

◉ The foreign key must have a role name to avoid attribute duplication

○ All of the above

○ The relationship could be an identifying relationship

○ None of these, recursive relationships are not allowed in data models

○ The relationship could be mandatory at either end

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In a recursive relationship, the foreign key must have a role name to avoid attribute duplication

---

✓ In its broadest context, the data warehouse includes: *   1/1

○ Data stores and extracts that can be transformed into star schemas

○ All the data in the enterprise

○ Either an Inmon or Kimball approach

○ An integrated data store, ETL logic, and extensive data cleansing routines

◉ Any data stores or extracts used to support the delivery for BI purposes

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In its broadest context, the data warehouse includes: Any data stores or extracts used to support the delivery for BI purposes.

✓ **Which of these is NOT an expected role of a Data Quality Oversight Board?**

◉ Data profiling and analysis

○ Establishing communications and feedback mechanisms

○ Producing certification and compliance policies

○ Developing and maintaining Data Quality

○ Setting Data Quality improvement priorities

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Data profiling and analysis is NOT an expected role of a DQ Oversight Board.

✓ **Master and reference data are forms of? ***

◉ Data Integration

○ Data Mapping

○ Data Quality

○ Data Architecture

○ Data Security

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Master and reference data are forms of: Data Integration.

✓ **What is one of the benefits of Services-Oriented Architecture (SOA)? ***

○ Provides oversight and control to the integration development lifecycle

○ Is the fastest way to develop a new interface

◉ Enables application independence and the ability to replace systems without significant changes to interfacing systems

○ Provides an optimized user experience for the data consumer

○ Allows access to the underlying data structures

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
one of the benefits of Services-Oriented Architecture (SOA): Enables application independence and the ability to replace systems without significant changes to interfacing systems.

✓ **Database performance depends upon two independent facets. These are?**

○ Distance to data center and network bandwidth

○ Choice of DBMS and programming language

○ Number of users and number of tables

○ Hardware and network

◉ Availability and speed

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Database performance depends upon two independent facets. These are Availability and speed.

✓ What is the technique for log-based change of data capturing? *

⦿ Source Database Management System create data activity logs which are monitored and applied on the target database

○ Compare the current state of the source system to a previous copy

○ The source system processes add to a simple list of changed objects and identifiers on data update

○ The source system populates specific data elements in the target system

○ The source system processes copy data that has changed into separate objects part of source data update

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The technique for log-based change of data capturing: Source Database Management System create data activity logs which are monitored and applied on the target database.

✓ According to the DMBOK, which of the following are included as Data Management goals?

○ Big Data goals need to change to reflect reality

○ Data Quality goals must be aligned with ISO27001

⦿ We should ensure that data can be used effectively to add value to the enterprise

○ Data Management goals must focus first on legislation

○ Data Management goals should be driven by technical capability and available capabilities

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
DM goals include: We should ensure that data can be used effectively to add value to the enterprise

---

✓ According to the DMBoK, the system that contains the "best version" of the master data is the?

⦿ System of record

○ Golden record

○ Consuming system

○ Source system

○ Spoke

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
the system that contains the "best version" of the master data is the: System of record.

✓ Which of the following should staff do to guarantee optimum database performance of data operations?

⦿ Discuss performance requirements with the data architects

○ Discuss the amount of time a user can wait on a screen

○ Reduce the number of rows in the tables

○ Revoke the access rights of heavy users

○ Decide what type of storage will be acquired

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
To guarantee optimum database performance of data operations, staff should Discuss performance requirements with the data architects.

✓ The stakeholder requirements for privacy and confidentiality are goals found in?

○ Data Architecture

◉ Data Security

○ Metadata Management

○ Data Quality

○ Document and Content Management

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
The stakeholder requirements for privacy and confidentiality are goals found in: Data Security

---

✓ Which of these is a key process in defining Data Quality business rules? *

○ De-duplicating data records

◉ Separating data that does not meet business needs from data that does

○ Producing Data Quality reports and dashboards

○ Matching data from different data sources

○ Producing Data Management policies

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Separating data that does not meet business needs from data that does is a key process in defining DQ business rules.

✓ Which Normal Form typically has this normalization rule? "Use the minimal amount of attributes in a key."

○ All of the above

○ None of the above

◉ Second NF

○ Third NF

○ First NF

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Second NF has this normalization rule? "Use the minimal amount of attributes in a key."

✓ Which of the following is NOT an activity that would enable business acceptance and user satisfaction?

○ Promoting scheduled meetings with user representatives

○ Ensuring perceptions of the quality of the data in the BI system are managed

◉ Defining different types of reporting tools to be used for future business needs

○ Understanding the data and defining the operations team's responsiveness to identified issues

○ Furnishing an end-to-end verifiable data lineage

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Defining different types of reporting tools to be used for future business needs is NOT an activity that would enable business acceptance and user satisfaction.

✓ Communicating the value of Data Governance can be approached in a number of ways. Which of the following approaches is NOT a recognized way of doing this?

○ Providing only negative communications on ongoing data issues to key executive stakeholders

○ Promoting participation in a DM forum or community

○ Maintaining an intranet website

○ Publishing a regular newsletter via hardcopy or email

◉ Creating a series of "elevator pitches" for the appropriate audience

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
NOT a recognized way to communicate the value of DG: Creating a series of "elevator pitches" for the appropriate audience is

---

✓ Which of these is NOT a type of key found in a data model? *

◉ Local key

○ Foreign key

○ Primary key

○ Surrogate key

○ Alternate key

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Local key is NOT a type of key found in a data model

✓ Which of the following is NOT an approach to data valuation? *

○ Cost of obtaining and storing data

○ Expected revenue from innovative uses of data

○ What the data could be sold for

○ Cost of replacing data if it were lost

◉ Enterprise Data Modeling

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
Enterprise Data Modeling is NOT an approach to data valuation

---

✓ In the data lifecycle, the DMBoK recommends minimizing ROT data. ROT stands for?

○ Data is Routine, Obsolete, Tiny

○ Data that is not Relational, Operational, Timely

○ Data that is not Requested, Orchestrated, Technology supported

◉ Data that is Redundant, Obsolete, Trivial

○ Data that is not Realistic, Ordered, Timely

Feedback

Akram Al Hossainy: Correct!

Add to your notes:
In the data lifecycle, the DMBoK recommends minimizing ROT data. ROT stands for Data that is Redundant, Obsolete, Trivial