# EPSO Data Management and Knowledge Competition MCQ Compendium — 30 Practice Questions

### **Instructions for Candidates**

This compendium contains **30 multiple-choice questions** designed to prepare you for the **Field-Related Multiple Choice Questionnaire** in the **EPSO Expert Competition for Data Management and Knowledge (AD7)**.

#### **Test Format:**

Duration: 60 minutes (20' + 20' + 20')

• Questions: 30 (10+10+10)

• **Pass Mark:** 50% (≥ 5/10 correct answers)

Language: English

#### **Best Practice:**

1. Allocate approximately 2 minutes per question

- 2. Read questions carefully to identify the **best answer** from four options
- 3. Consult official EPSO pre-published material for additional study resources
- 4. Review answers against the Answer Key provided at the end

### Questions (1–10)

### **Question 1: Data Governance Framework**

In the context of EU data governance, which of the following best describes the primary purpose of a Data Governance Framework?

- A. To ensure all employee data is encrypted with military-grade security protocols
- B. To establish clear roles, responsibilities, and decision-making processes for managing data as an organizational asset
- C. To replace the need for technical data management systems
- D. To eliminate all data storage requirements through cloud migration

#### **Correct Answer:**

### **Question 2: Master Data Management (MDM)**

What is the core objective of Master Data Management (MDM) in the context of large organizations like the EU institutions?

- A. To ensure that every department maintains its own independent database
- B. To create a single, authoritative source of truth for critical business data across the organization
- C. To minimize data storage capacity and reduce IT infrastructure costs
- D. To ensure all data is made publicly available without restrictions

#### **Correct Answer:**

### **Question 3: Data Quality Metrics**

Which of the following is NOT a standard metric for assessing data quality?

- A. Completeness (percentage of non-empty fields)
- B. Accuracy (correctness of data against authoritative sources)
- C. Organizational hierarchy (reporting structure of departments)
- D. Consistency (uniformity of data formats across systems)

#### **Correct Answer:**

### **Question 4: Data Protection Regulation (GDPR)**

Under GDPR, what is the primary responsibility of a Data Controller?

- A. To collect personal data without informing the data subject
- B. To determine the purposes and means of processing personal data and ensure lawful processing
- C. To delete all personal data within 24 hours of collection
- D. To share personal data with all government agencies without consent

#### **Correct Answer:**

### **Question 5: Data Classification**

Which classification level would be most appropriate for sensitive internal documents containing strategic institutional information?

- A. Public
- B. Internal Use Only
- C. Confidential
- D. Unrestricted

#### **Correct Answer:**

### **Question 6: Data Lifecycle Management**

What are the typical stages of a data lifecycle in organizational information management?

- A. Collection, Processing, Analysis, Archival, Deletion
- B. Creation, Storage, Use, Sharing, Destruction

- C. Reception, Integration, Retention, Auditing, Expunging
- D. All of the above

#### **Correct Answer:**

### **Question 7: Data Interoperability**

In the context of EU institutions, what does data interoperability primarily enable?

- A. The ability of different data systems to exchange and use information seamlessly across organizations
- B. The complete elimination of separate databases
- C. The encryption of all inter-departmental communications
- D. The restriction of data access to only one department

#### **Correct Answer:**

### **Question 8: Metadata Management**

Which statement best defines metadata in the context of data management?

- A. Data that describes the characteristics, structure, and context of other data
- B. Personal information collected about employees
- C. Encrypted data stored in secure servers
- D. Raw numerical values before processing

#### **Correct Answer:**

### **Question 9: Data Repository Architecture**

What is a primary advantage of implementing a centralized data repository (data warehouse) in large organizations?

- A. It reduces the need for any other data storage solutions
- B. It enables single-version truth, improved analytics, and reduces data redundancy
- C. It automatically improves data quality without additional management
- D. It eliminates the requirement for data governance policies

#### **Correct Answer:**

### **Question 10: Knowledge Management Systems**

Which of the following best describes the role of Knowledge Management Systems (KMS) in organizational operations?

- A. To replace all employee training programs
- B. To capture, organize, and share institutional knowledge to improve decision-making and operational efficiency
- C. To eliminate the need for written documentation
- D. To control employee access to all organizational information uniformly

### **Questions (11–20)**

### **Question 11: Data Ethics and Responsible Use**

In the context of data ethics, what is the primary concern when implementing AI-driven decision-making systems in public institutions?

- A. To maximize processing speed regardless of outcomes
- B. To ensure algorithmic fairness, transparency, and accountability to prevent bias and discrimination
- C. To minimize costs without regard for ethical considerations
- D. To ensure only powerful users can access the system

#### **Correct Answer:**

### **Question 12: Data Security and Access Control**

Which access control model is considered most restrictive and secure in high-security environments?

- A. Open Access Control (no restrictions)
- B. Role-Based Access Control (RBAC)
- C. Principle of Least Privilege with Multi-Factor Authentication
- D. Public Access with Optional Password Protection

#### **Correct Answer:**

### **Question 13: Data Integration**

What is a key challenge in integrating data from multiple legacy systems within large organizations?

- A. There are no challenges; integration is always straightforward
- B. Legacy systems typically use incompatible data formats, schemas, and communication protocols
- C. Modern systems cannot connect to older systems under any circumstances
- D. Data integration only requires copying files between folders

#### **Correct Answer:**

### **Question 14: Data Analytics and Insights**

Which approach best represents the progression of data maturity in analytical capabilities?

- A. Descriptive Analytics → Predictive Analytics → Diagnostic Analytics → Prescriptive Analytics
- B. Raw Data  $\rightarrow$  Structured Data  $\rightarrow$  Analyzed Data  $\rightarrow$  Insights
- C. Descriptive  $\rightarrow$  Diagnostic  $\rightarrow$  Predictive  $\rightarrow$  Prescriptive
- D. All data flows directly to automated decisions

### **Question 15: Records Management**

According to EU institutional standards, what is the primary purpose of records management in data governance?

- A. To store all documents indefinitely without organization
- B. To systematically control the creation, maintenance, use, and disposition of records according to legal and operational requirements
- C. To prevent any employee access to historical documents
- D. To replace digital systems with paper-based filing

#### **Correct Answer:**

### **Question 16: Data Standardization**

Why is data standardization essential in large, multi-language organizational contexts like EU institutions?

- A. It is not necessary; variation in formats is beneficial
- B. To ensure consistency, comparability, and interoperability across departments and language communities
- C. To prevent departments from communicating with each other
- D. To eliminate the need for data validation

#### **Correct Answer:**

### **Question 17: Data Retention Policies**

What is a critical element of an effective data retention policy?

- A. To retain all data indefinitely without review
- B. To delete all data immediately after creation
- C. To establish clear rules regarding how long data is kept, when it is archived, and when it is securely deleted based on legal and operational requirements
- D. To allow each department to decide independently without coordination

#### **Correct Answer:**

### **Question 18: Information Architecture**

In the context of EU institutional knowledge management, what does Information Architecture primarily address?

- A. The physical design of office buildings
- B. The logical organization, structure, and accessibility of information resources to support user needs and institutional objectives
- C. The elimination of all information systems
- D. The restriction of information flow to management levels only

### **Question 19: Data Validation and Quality Assurance**

Which of the following represents a best practice in data validation?

- A. Accepting all data entries without review to speed up processes
- B. Implementing automated validation rules, consistency checks, and periodic audits to detect and correct errors
- C. Validating data only during crisis situations
- D. Eliminating the need for quality checks through manual data entry

#### **Correct Answer:**

### **Question 20: Open Data and Transparency**

In alignment with EU transparency initiatives, which statement best reflects the principles of open data governance?

- A. All institutional data must be kept secret from the public
- B. Open data increases costs and provides no organizational benefits
- C. Making non-sensitive data publicly accessible promotes transparency, enables reuse, and supports evidence-based policy-making while respecting privacy regulations
- D. Open data initiatives eliminate the need for data security measures

#### **Correct Answer:**

### Questions (21–30)

### **Question 21: Data Governance**

Which of the following best describes a data governance framework?

- A. A set of rules, processes, and structures for managing data assets
- B. A set of SQL scripts for automating ETL jobs
- C. A cloud-based backup system
- D. A dashboard for monitoring data errors

#### **Correct Answer:**

### **Question 22: MDM**

Master Data Management (MDM) focuses on:

- A. Transactional log analysis
- B. Ensuring a single, authoritative source for key data entities
- C. Managing real-time streaming data
- D. Cloud server monitoring

### **Question 23: Relational Database**

A "Candidate Key" in a relational database table is defined as:

- A. key that is used to join two tables together.
- B. Any attribute that can be used to identify a row.
- C. An attribute or set of attributes that uniquely identifies a row and is a minimal super-key.
- D. A key that is automatically generated by the database system.

#### **Correct Answer:**

### **Question 24: SQL commands**

The SQL command used to permanently save any transaction into the database is:

- A. COMMIT
- **B. SAVE TRANSACTION**
- C. PERSIST
- D. END TRANSACTION

#### **Correct Answer:**

### **Question 25: Data Normalization**

The primary purpose of data normalization is to:

- A. Improve query performance for read-only reports.
- B. Eliminate data redundancy and ensure data integrity.
- C. Increase data storage capacity.
- D. Simplify the ETL (Extract, Transform, Load) process.

#### **Correct Answer:**

### **Question 26: Knowledge Retention Strategies**

Knowledge retention strategies generally include:

- A. Minimizing cross-team communication
- B. Eliminating training resources
- C. Replacing repositories with email chains
- D. Job rotation, documentation, and mentoring

#### **Correct Answer:**

### Question 27: Completion of Database Transaction Property

In a database transaction, the property that ensures all operations within the transaction are completed successfully or none of them are, is called:

- A. Consistency
- B. Isolation
- C. Durability
- D. Atomicity

#### **Correct Answer:**

### **Question 28: SCD**

What is a "slowly changing dimension" (SCD) in a data warehouse context?

- A. A dimension that is updated very infrequently.
- B. A dimension where attributes change slowly over time, requiring specific strategies to track history.
- C. A dimension table with a very large number of rows.
- D. A dimension that is not used in any active reports.

#### **Correct Answer:**

### **Question 29: Data Lake vs Data Warehouse**

A data lake differs from a data warehouse because it:

- A. Stores only structured data
- B. Stores raw, unprocessed data in diverse formats
- C. Always guarantees high data quality
- D. Requires relational modelling

#### **Correct Answer:**

### **Question 30: GDPR**

Which of the following is a core principle of the General Data Protection Regulation (GDPR)

- A. Data must always be stored within the European Union.
- B. Data can be processed for any purpose once consent is given.
- C. Data subjects have the "right to be forgotten".
- D. Data must be stored indefinitely for auditing purposes.

#### **Correct Answer:**

## **Answer Key**

Question	Answer	Topic Area
1	В	Data Governance
2	В	Master Data Management
3	С	Data Quality
4	В	GDPR & Data Protection
5	С	Data Classification
6	D	Data Lifecycle
7	A	Data Interoperability
8	A	Metadata
9	В	Data Architecture
10	В	Knowledge Management
11	В	Data Ethics
12	С	Data Security
13	В	Data Integration
14	С	Data Analytics
15	В	Records Management
16	В	Data Standardization
17	С	Data Retention
18	В	Information Architecture
19	В	Data Validation

20	С	Open Data
21	A	
22	В	
23	С	
24	A	
25	В	
26	D	
27	D	
28	В	
29	В	
30	С	

# **Scoring Guidance**

**Passing Score:** 10/20 (50%)

Score Range	Performance Level	Interpretation
18-20	Excellent	Very strong grasp of all core concepts
15-17	Good	Solid understanding; minor gaps to address
12-14	Satisfactory	Acceptable knowledge; targeted review recommended
10-11	Passing	Minimum competency; comprehensive study needed
<10	Below Passing	Significant preparation required before test