



BCS Practitioner Award in Data Architecture

Specimen Paper

Record your surname / last / family name and initials on the answer sheet.

This specimen paper has only 10 questions, which are a mixture of multiple-choice and multiple-response questions – 1 mark awarded to each question. Multiple-choice questions allow only one correct answer to be selected for 1 mark. Multiple response questions require the candidate to select a number of correct responses for 1 mark.

There are no trick questions.

A number of possible answers are given for each question, indicated by either **A B C D or E**. Your answers should be clearly indicated on the answer sheet.

Pass mark is 7/10

Time allowed: 15 minutes.

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- 1 Which **one** of the following calculations would be completed when creating a decision tree?
- A Cartesian Product.
 - B Information Gain.
 - C Term Frequency.
 - D Inverse Document Frequency.
- 2 Which **one** of the following are levels in the CMMI?
- A Initial.
 - B Prepared.
 - C Qualitatively managed.
 - D Negotiated.
- 3 An organisation is looking to implement a framework to define the enterprise architecture and capture various viewpoints. Which **one** of the following would be the **most** suitable framework to apply?
- A TOGAF.
 - B Zachman.
 - C DMBOK2.
 - D DAMA.
- 4 Which of the following are benefits of data governance?
- Select **three correct** responses.
- A Improved data quality.
 - B Reduced data costs.
 - C Increased focus on customer retention.
 - D Increased data security.
 - E Faster decision making.

5 Which of the following would be benefits of a decentralised data governance model?

Select **two correct** responses.

- A Offers simpler data maintenance.
- B Shorter delivery time for master data.
- C Suited to large organisations.
- D Coordination and communication.
- E Reduced costs.

6 Which of the following are levels in the DAMA?

Select **three correct** responses.

- A Adhoc.
- B Defined.
- C Regular.
- D Repeatable.

7 A business stakeholder requires your guidance on how data should be stored for an international client. Which of the following responsibilities of data architecture are being demonstrated?

Select **two correct** responses.

- A Analyse and synthesise data.
- B Communicate between the technical and non-technical.
- C Model and own the data landscape.
- D Understand and adhere to relevant data governance.

8 In working with unstructured data, NoSQL databases can help store the data. Which of the following would be associated with NoSQL databases?

Select **two correct** responses.

- A Column-based.
- B Document oriented.
- C Extensive query capabilities.
- D Formalised ERD.

9 Which of the following are true of the physical level of abstraction?

Select **three correct** responses

- A It describes how data is stored in the computer system.
- B It is the lowest level of abstraction.
- C It is managed by the project manager.
- D It is concerned with the structure of the database.
- E It has descriptions of the meaning of the data.

10 Which of the following are typically included in a low-level design?

- A Data Storage devices.
- B Data tables and indexes.
- C Implementation steps.
- D Data access permissions.
- E Cost estimates.

End of Paper