

Question	Answer	Explanation / Rationale	Syllabus Sections
1	A	Proprietary data is internally generated data or documents that contain technical or other types of information controlled by a firm to safeguard its competitive edge. It may be protected under copyright or trade secret laws.	1.2
2	A	Operational data includes internal control and operational environment information such as data on the company's workforce, direct competitors, creditors, suppliers and information on customers.	1.2
3	B	Open data is information that can be freely used, reused and redistributed by anyone with no existing local, national or international legal restrictions on access or usage.	1.2
4	B	This is a representation of the chronological order of the ETL (Extract, Transform and Load) process.	10.2
5	A	Predictive tools do not provide the actual outcome and other business knowledge will not provide key relevance and therefore accuracy.	11.1
6	A	Migration does not feature in the data lifecycle.	2.2
7	A	Extensible Markup Language (XML) is a common source of structured data. Recognising the way XML looks as it structures data allows a data analyst to understand how that data can be queried, transported, exported and more.	3.2
8	D	Structured data refers to any data that resides in a fixed field within a record or file. This includes data contained in relational databases and spreadsheets. Unstructured data formats are often layered within other formats. For example, plain text could be stored inside a document contained within a zip file.	3.2
9	D	Structured and unstructured data are both used extensively in data analysis.	3.5
10	D	Requirements analysis takes account of the possibly conflicting requirements of the various stakeholders, analysing, documenting, validating and managing software or system requirements.	4.2
11	A	Requirements elicitation is the practice of collecting the requirements of a system from users, customers and other stakeholders	4.3
12	C	Data validation is the process of ensuring that a program operates on clean, correct and useful data.	4.2
13	D	The quality of data is not subjective to the location in which it is stored.	5.1

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14	C	Inaccurate data will prevent reliable analysis and insight. Correcting this will then take additional time to remedy. Typically, poor data quality will not have a positive effect on a business.	5.2
15	A	Obscuring or removing personal data will protect the individual by preventing accurate, genuine data from being available.	5.1
16	D	A high level of data quality will ensure compliance with legislative direction as well as providing insight into key organisational statistics, allowing informed business planning.	5.4
17	A	A hypothesis test is a statistical test that is used to determine whether there is enough evidence in a sample of data to infer that a certain condition is true for the entire population.	6.1
18	A	The (null) hypothesis is that there is no significant difference between specified populations, any observed difference being due to sampling or experimental error.	6.2
19	A	Interpolation is a method of constructing new data points within the range of a discrete set of known data points.	6.3
20	D	A pie chart is an accurate graphical representation of the categorical distribution of data.	6.4
21	A	The correct answer is A because an organisation may face a fine from the ICO following a data breach if they haven't complied with requirements of the Act. Answer B isn't correct because the cost of doing business is likely to be lower if they don't try and comply. Answer C isn't correct because while some customers may insist on compliance many won't care. Answer D isn't correct because every organisation handles some personal data even if it's only about their own staff.	7.3
22	C	General data structure types include the array, the file, the record, the table and the tree. A folder is a named collection of related files.	8.2
23	B	A table space is a storage location where the actual data underlying database objects can be kept.	8.2
24	D	A conceptual data model maps concepts and their relationships, describing an organisations semantics and demonstrating assertions about its nature.	9.1
25	B	Redundant relationships are those that are already indicated by other relationships, although not directly.	9.3
26	D	Database normalisation is the process of organising the columns (attributes) and tables (relations) of a relational database to reduce data redundancy and improve data integrity.	9.3
27	C	Descriptive analytics is a preliminary stage of data processing that creates a summary of historical data.	11.2
28	C	The Primary Key is the set of mandatory attributes in a relation that enforces uniqueness of tuples.	8.2

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29	D	Only the index and the name of a data attribute within a class represent data that describes data (metadata). The remaining options refer to physical data artefacts.	10.2
30	A	Digital invoices are structured data.	3.3
31	A	Interviews are good for capturing tacit knowledge.	4.2
32	A	A Gantt chart is a series of horizontal lines that show the amount of work done or production completed in certain periods of time, in relation to the amount planned for those periods. A line graph is a chart representing values of a variable (e.g. time) for suitable values of an independent variable are connected by a broken line.	6.4
33	B	The data protection principles are: <ul style="list-style-type: none"> • Lawfulness, fairness and transparency • Purpose limitation • Data minimisation • Accuracy • Storage limitation • Integrity and confidentiality (security) Whilst data subjects have the right to access their information under the Data Protection Act 2018 this must be done through a subject access request.	7.2
34	D	Linear is not a recognised database technology.	9.2
35	B	Verification may cause a problem in testing but not in requirements analysis. The agile principles of requirements will not have make analysis more difficult.	4.2
36	C	Interface and document analysis do not require user contact.	4.3
37	D	A null hypothesis is a hypothesis that says there is no statistical significance between the two variables. It is usually the hypothesis a researcher or experimenter will try to disprove or discredit.	6.2
38	D	Creating is always the first step in the data lifecycle.	2.2
39	D	Relational Databases are not restricted to containing only a single table. The relationships of relational databases are generally logical connections between multiple tables.	8.2
40	C	Storing and backing up data does not transform it into information.	1.1