



Oxford Cambridge and RSA

**Tuesday 18 January 2022 – Afternoon**

**Level 3 Cambridge Technical in Applied Science**

**05874** Unit 22: Global scientific information

**INSERT**



**INSTRUCTIONS**

- Do **not** send this Insert for marking. Keep it in the centre or recycle it.

**INFORMATION**

- This document has **4** pages.

**Pre-release research brief**

You should carry out your own research on the themes given in this research brief. Your research will help you to prepare for your examination.

Your research is only for your own use. You must not bring your notes into the examination.

A clean copy of this research brief will be provided in the examination.

**In your research you should consider the following themes:**

- the role of charitable bodies as holders of scientific information
- the advantages and disadvantages of cloud storage
- reasons for transmitting scientific information between developed and developing countries
- legislation relating to the storage and use of information
- principles of information security
- personnel security protocols.

The questions in Section A of the examination will require you to draw on the knowledge and understanding which you have gained while researching these themes.

**Instructions:**

**Read the following page of information.**

**Carry out your own research on the themes given above.**

## Cutting edge science and a social conscience

### Organisation profile

Artimus Discovery is an independent scientific research company. It provides drug discovery resources and expertise to the global biotech and pharmaceutical industry.



Artimus Discovery currently carries out:

- absorption, distribution, metabolism and excretion (ADME)/pharmacokinetic (PK) services
- target-based drug discovery
- computational analysis of biological information.

The Business Development Director at Artimus Discovery has decided that the company should expand into computer-simulated toxicology. This will allow the company to offer a complete range of drug development services and make greater use of its strengths in computational analysis for which it has an excellent reputation.

The director is aware of the ethical issues relating to how some toxicity tests are performed and how some members of the public respond to their perceptions of these tests. He is keen to stress that the company will not be involved directly in *in-vivo* testing but such perceptions may introduce risks to personnel and information security that must be properly assessed.

As part of its corporate social responsibility, Artimus Discovery sponsors a PhD student at a local university. The student is working with an international charitable organisation to assess the impact of unregulated exposure to certain agricultural chemicals on farm workers in developing countries. Part of this project is to create a database of patient data accessible to all potential stakeholders.



Artimus Discovery abides by the principles of information security with a particular regard for client confidentiality. The company has a policy of sharing its research findings with the wider scientific community. However, the linking of clients with products and test results is commercially sensitive. Artimus Discovery employs an Information Security Management System (ISMS) under the direction of a senior manager. In addition, all company staff receive regular training in information security.

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