

令和4年度 国際バカロレア特別入試

筑波大学 人間学群 教育学類

「小論文」問題

試験実施日 令和3年11月29日

実施時間 午前10:00～12:00

〔解答上の注意〕

- 1 指示があるまで問題冊子を開いてはいけません。
- 2 問題冊子1冊、解答用紙4枚、下書き用紙2枚が配布されていることを確認しなさい。問題冊子は表紙を含めて5頁あります。
- 3 解答に当たっては、指定された解答用紙をそれぞれ使用しなさい。
- 4 解答は、指示がない限り、日本語で書きなさい。
- 5 採点対象となるのは解答用紙だけです。  
下書き用紙に書かれた内容は採点の対象となりません。
- 6 質問がある場合や、気分が悪くなった場合は、手を挙げなさい。

〔回収上の注意〕

- 1 4枚の解答用紙を、問題番号順に重ねなさい。  
重ねたまま回収します。
- 2 問題冊子と下書き用紙は回収しません。持ち帰りなさい。

問題 次の英文を読み、以下の各問に答えなさい。

1. The first part of the passage describes the author's early experiences with the subject. He mentions how he was fascinated by the topic from a young age and how he spent many hours reading books and conducting experiments. This early interest led him to pursue a degree in the field, where he was mentored by a leading expert. The author's passion for the subject was evident in his dedication and the quality of his work.

2. In the second part of the passage, the author discusses the challenges he faced during his research. He mentions the lack of resources and the limited knowledge available at the time. Despite these difficulties, he persevered and made significant contributions to the field. He credits his success to his hard work, his mentor's guidance, and his unwavering belief in the importance of his research.

3. The third part of the passage focuses on the author's personal life and how it influenced his work. He describes the struggles of balancing family responsibilities with his career and how he found support from his loved ones. The author's experiences taught him the value of resilience and the importance of maintaining a healthy work-life balance.

4. In the fourth part of the passage, the author reflects on his career and the impact of his work. He discusses the satisfaction of seeing his research applied in the real world and the sense of accomplishment that comes with it. He also mentions the challenges of staying motivated and the importance of continuous learning in a rapidly changing field.

5. The final part of the passage offers the author's advice to young researchers. He emphasizes the importance of curiosity, hard work, and perseverance. He encourages them to seek out mentors, stay organized, and not be afraid to ask questions. The author concludes by expressing his hope that his experiences and insights will be helpful to others in the field.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that proper record-keeping is essential for ensuring the integrity and reliability of financial data. This section also outlines the various methods and tools used to collect and analyze data, highlighting the need for consistency and precision in all reporting.

The second part of the document focuses on the specific procedures and protocols for data collection and analysis. It details the steps involved in identifying data sources, gathering information, and processing it into a usable format. This section also addresses the challenges associated with data collection, such as incomplete or inconsistent data, and provides strategies to overcome these issues.

The third part of the document discusses the importance of data quality and the steps taken to ensure it. It highlights the need for regular audits and quality checks to identify and correct any errors or discrepancies. This section also outlines the various methods used to measure and improve data quality, such as using statistical techniques and quality control procedures.

The fourth part of the document discusses the importance of data security and the steps taken to protect it. It highlights the need for strong security measures, such as encryption and access controls, to prevent unauthorized access to sensitive data. This section also outlines the various methods used to monitor and detect security breaches, such as intrusion detection systems and security audits.

The fifth part of the document discusses the importance of data privacy and the steps taken to protect it. It highlights the need for strong privacy policies and procedures, such as data minimization and anonymization, to ensure that personal information is handled in a responsible and ethical manner. This section also outlines the various methods used to monitor and detect privacy violations, such as privacy impact assessments and data protection audits.

The sixth part of the document discusses the importance of data governance and the steps taken to implement it. It highlights the need for a clear and consistent set of policies and procedures that govern the use of data throughout the organization. This section also outlines the various methods used to monitor and enforce data governance, such as data governance frameworks and data governance committees.

## 注釈

PISA 生徒の学習到達度調査

equivalent 同等の

genes 遺伝子

multiplicity 多様

ingredients 成分

cross-fertilise 相互交流

synergisms 相乗作用

purview 範囲

conceptualisations 概念化

出典：Kautz, T., Heckman, J. J., Diris, R., Weel, B. T. and Borghans, L. (2014) *Fostering and Measuring Skills: Improving Cognitive and Non-Cognitive Skills to Promote Lifetime Success* ( Retrieved from <https://www.oecd.org/education/ceeri/Fostering-and-Measuring-Skills-Improving-Cognitive-and-Non-Cognitive-Skills-to-Promote-Lifetime-Success.pdf>) (一部改変)

問1 下線部(ア)を日本語に訳しなさい。

問2 下線部(イ)の non-cognitive skills は、どのような意味であり、最近の研究でどのような点が指摘されたのか。本文に即して具体的に説明しなさい。

問3 下線部(ウ)の内容に即して、non-cognitive skills と IQ にはどのような共通点があるのか、そして、non-cognitive skills にはどのような特徴があるのか、について説明しなさい。

問4 下線部(エ)で、While schools are important, they are far from being the principal source of the skills that matter.と指摘されている。本文の内容を踏まえながら、現在の教育にはどのような課題があるのか、そして、どうすればその課題を解決できるかについて、論述しなさい。(問4用の解答用紙を使って、600字以上800字以内で述べること。)