

令和4年度 編入学試験問題

小論文（90分）

医学群

【医療科学類】

「試験開始」の合図があるまで、この表紙を開けないこと。

以下の注意事項をよく読みなさい。

1. 「試験開始」の合図があったら、問題用紙、解答用紙、下書き用紙の枚数を確かめなさい。

問題用紙	7枚（表紙を除く）
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解答用紙	7枚
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下書き用紙	2枚
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2. 配られたすべての解答用紙に氏名と受験番号を記入しなさい。
3. 解答は所定の解答用紙に、特に指定のない限り日本語で記入しなさい。
4. 解答用紙のホッチキスはずすこと。
5. 問題用紙と下書き用紙は持ち帰ること。解答用紙はすべて回収するので持ち帰らないこと。

問題

以下の文章を読み、問1～問7に答えなさい。

ただし、人名は英語のまま用いて良い。

[The following text is intentionally blurred for privacy and readability.]

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The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. This ensures transparency and allows for easy verification of the data. The text also mentions that regular audits are necessary to identify any discrepancies or errors in the accounting process.

Furthermore, it is noted that the accounting system should be designed to be user-friendly and efficient. This helps in reducing the time and effort required to enter and process data. The document also highlights the need for proper segregation of duties to prevent fraud and ensure the integrity of the financial information.

In conclusion, the document stresses that a robust accounting system is essential for the success of any business. It provides a clear framework for how to set up and maintain such a system, ensuring that all financial activities are properly recorded and reported.

The second part of the document focuses on the role of the accounting department in providing valuable insights to management. It explains how financial statements and reports can be used to analyze the company's performance and identify areas for improvement. The text also discusses the importance of timely reporting and the use of budgeting as a tool for financial planning.

Overall, the document provides a comprehensive overview of the accounting process and its significance in business operations. It offers practical advice and best practices that can be applied to various types of organizations. The goal is to ensure that the accounting system is not only accurate but also serves as a strategic tool for decision-making.

The first part of the document discusses the importance of maintaining accurate records of all transactions and activities. It emphasizes the need for transparency and accountability in financial reporting.

The second part of the document outlines the various methods and techniques used to collect and analyze data. It covers both qualitative and quantitative approaches, highlighting the strengths and limitations of each. The text also discusses the importance of data integrity and the need for rigorous quality control measures.

3. Data Analysis

The third part of the document focuses on the analysis of the collected data. It describes the various statistical and analytical tools used to interpret the results and draw meaningful conclusions.

The fourth part of the document discusses the implications of the findings and the potential applications of the research. It highlights the importance of communicating the results effectively to the relevant stakeholders and the need for ongoing monitoring and evaluation.

The fifth part of the document provides a summary of the key findings and conclusions. It reiterates the main points of the research and offers recommendations for future studies and practice.

The sixth part of the document discusses the limitations of the study and the need for further research. It identifies the areas where the current findings are inconclusive and suggests ways to address these gaps.

The final part of the document provides a concluding statement and a list of references. It summarizes the overall contribution of the research and provides a list of the sources used in the study.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry should be supported by a valid receipt or invoice. The text also highlights the need for regular reconciliation of accounts to ensure that the books are balanced and that there are no discrepancies. Furthermore, it mentions the importance of keeping records for a sufficient period of time to comply with legal requirements. The document concludes this section by stating that proper record-keeping is essential for the financial health and transparency of any organization.

Financial Reporting

The second part of the document focuses on the process of financial reporting. It outlines the steps involved in preparing financial statements, including the income statement, balance sheet, and cash flow statement. The text stresses the importance of accuracy and consistency in these reports, as they provide a clear picture of the organization's financial performance. It also mentions the role of internal controls in ensuring the reliability of the data used in the reports.

In addition, the document discusses the importance of timely reporting to stakeholders, such as investors and creditors. It notes that delays in reporting can lead to a loss of confidence and may have negative consequences for the organization. The text concludes this section by emphasizing the need for transparency and accountability in all financial reporting activities.

The third part of the document addresses the issue of budgeting and financial planning. It explains how a well-defined budget can help an organization manage its resources effectively and achieve its strategic goals. The text describes the process of developing a budget, from identifying the organization's needs to allocating resources accordingly. It also mentions the importance of monitoring and evaluating the budget's performance throughout the year. The document concludes this section by stating that budgeting is a critical tool for financial management and should be used consistently and effectively.

Conclusion

In conclusion, the document emphasizes the importance of sound financial management practices for the long-term success of any organization. It highlights the need for accurate record-keeping, timely reporting, and effective budgeting. The text concludes by stating that these practices are essential for ensuring the financial health and transparency of the organization, and for enabling it to achieve its strategic objectives. The document ends with a final statement that encourages organizations to adopt these best practices and to continuously improve their financial management processes.

(*Nature*, 2020 Michael Marshall 著 “THE WATER PARADOX AND THE ORIGINS OF LIFE” より引用、一部改変)

(註*) plummet : 突入する Martian : 火星の throngs : 群衆 lobbied : 賛成運動をする intermittently : 断続的に unanimous : 合意して terrestrial : 陸上の puddles : 水たまり primordial : 原始の dubbed : ~と称する cornerstone : 基本 vulnerable : 攻撃されやすい rigorously : 厳密に implausible : 信じがたい spontaneously : 自発的に evaporating : 蒸発する momentum : 勢い prey : 被食者 harness : 利用する Goldilocks : 適した (イギリスの童話の主人公)

- 問1 下線部(1)を和訳しなさい。Jezeroはそのまま用いて良い。
- 問2 下線部(2)について、どのような考え方、また実験結果に基づいて提唱されたか、本文に即して説明しなさい。
- 問3 下線部(3)について以下の(ア)、(イ)に答えなさい。
(ア) どのようなことなのか、構造式を用いて説明しなさい。

(イ) RNAはアルカリ環境下でDNAより不安定である。その理由を詳細に説明しなさい。
- 問4 下線部(4)とは何か、50字程度で説明しなさい。
- 問5 下線部(5)について、Frenkel-Pinterらはなぜそのような選択が起きたと考えているか、本文に即して説明しなさい。
- 問6 下線部(6) protocell (プロトセル) に関して、以下の(ア)、(イ)に答えなさい。
(ア) プロトセルとはどのようなものか、本文に即して説明しなさい。

(イ) あなたの考える生命体としての細胞とはどのようなものか。その定義を3つ述べなさい。
- 問7 湿った環境(wet)、乾燥した環境(dry)、およびその循環はどのようにして生命の誕生に関与したか、本文に即して具体例を挙げて説明しなさい。