

Name: _____

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Tech Jobs

INNOVATION AND CHALLENGES IN THE DIGITAL AGE

Technology has advanced rapidly in recent years, shaping nearly every aspect of modern life. At the center of this transformation are innovations such as artificial intelligence, cloud computing, and automation. These technologies allow businesses to process large amounts of data efficiently and improve decision-making.



One major factor driving progress is continuous research and development. Companies aim to create cutting-edge solutions that improve speed, accuracy, and user experience. For example, advancements in machine learning have enabled systems to recognize patterns and make predictions with impressive accuracy.

However, despite these improvements, technology is not without its challenges. Even advanced systems can experience a glitch in the system, causing unexpected failures or errors. These issues can disrupt services and reduce user trust, especially when they occur in critical industries such as healthcare or finance.

When problems arise, developers often need to go back to the drawing board to rethink their designs and improve system performance. This process may involve redesigning software architecture, improving cybersecurity measures, or upgrading outdated infrastructure.

Another important concept in modern technology is automation, which allows machines to perform tasks without human intervention. While automation increases efficiency, it also raises concerns about job loss and over-reliance on machines. Similarly, the rise of data processing systems has made it possible to analyze vast amounts of information, but it has also created concerns about privacy and data security.

Overall, the development of technology is a continuous cycle of innovation, challenge, and improvement.

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Part 1: Complete the diagram below.

Use NO MORE THAN FIVE WORDS from the passage for each answer.

STAGES OF TECHNOLOGY DEVELOPMENT

In the early stage, new systems are developed using (1)_____ to improve decision-making.



During innovation, companies focus on creating (2)_____ solutions.



At the problem stage, systems may experience (3)_____ that affect performance.



When issues occur, developers must go (4)_____ to redesign their systems.



In the improvement stage, (5)_____ is used to increase efficiency and reduce human effort.



In advanced stages, (6)_____ systems are used to analyze large amounts of information.

Part 2: Write a 3–5-sentence summary using the main ideas you identified.

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