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IDIOMA: INGLÊS

Área 3

* Indica uma pergunta obrigatória

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3 - Ciências Humanas, Ciências Sociais Aplicadas

NOME DO CANDIDATO *

Sua resposta



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NÚMERO DO CPF *

Sua resposta

Leia o texto e responda as questões a seguir em Português. Todas as questões devem ser respondidas de acordo com o texto. As respostas digitadas neste formulário eletrônico constituirão o ÚNICO documento válido para correção da prova.

The role of science and technology in reconstructing human social history: effect of technology change on societyDagm Alemayehu Tegegn 

Article: 2356916 | Received 08 Aug 2023, Accepted 14 May 2024, Published online: 22 May 2024

Abstract

The history of science and technology is the study of how people have comprehended the natural world or applied science and technology throughout history. This academic discipline also looks into the contexts and consequences of scientific methods on culture, economy, and politics. The purpose of this review article is to evaluate the role of science and technology in reconstructing human social history, specifically the impact of technological change on society. As such, secondary literatures are thoroughly researched to recount the discourse of the history of science and technology. The study concludes that science and technology have made an impact on the phenomenon of human social history and society in general. As a result, the industrial revolution, information communication technology and transportation technology, agricultural technology transformation, warfare technology progression, and changes in social values and social institutions are among the most significant changes. Revolutionary and evolutionary advancements in science and technology shaped the reconstruction of society's history from various periods in continues pattern.



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...ing, 2008, modes of transportation, and even the duration and quality of life. Science has influenced how we live and what we believe, beginning with humans' sedentary existence. Science has made man's existence easier by allowing him to address societal challenges, such as education, ethics, aesthetics, and justice; establish cultures; and improve the lives of many people. It has, however, given humans an exceptional power to injure both the environment and ourselves (Burke et al., 1985).

Science is an organized, systematic process that produces knowledge in the form of testable explanations and predictions about the universe (Wilson, 1999). Technology is the application of knowledge to achieve practical objectives in a precise and consistent manner (Skolnikoff, 1993). The study of how people have understood the natural world or applied science and technology throughout history is known as the history of science and technology. This academic field also investigates the contexts and effects of scientific practices on culture, religion, economy, and politics. There is a wealth of information about the struggle to make science an independent human endeavor, free of political or religious interference, in the history of science.

In terms of science, theoretical or reflective knowledge is ideal, not practical or useful creation. This does not imply that premodern science was overly rationalistic, as is commonly believed today. However, many of them were not manipulators but rather extremely intelligent and thoughtful observers of the world. This premodern understanding of the relationship between science, technology, and the state is

modified during the Middle Ages, but not in a way that fundamentally alters it. Technology and science were still seen as essentially separate fields that required outside direction. Religion simply provides guidance, not politics, even though religion largely wields this influence through a transformed form of politics. Because of this, early scientists like Nicolas Copper Nikes were disparaged, violently attacked, and banished from society (Lucchi, Citation2016).

Therefore, science and technology have helped people live more materially prosperous lives and laid the foundation for social progress. Since the start of the Industrial Revolution in the latter part of the eighteenth century, science and technology have made significant advances in a variety of fields, including energy, physical materials, engineering, biotechnology, information and communications, medicine, and many others. As a result, there has been a noticeable improvement in people's quality of life, prosperity, and health.

Source: <https://www.tandfonline.com/doi/full/10.1080/23311886.2024.2356916#abstract> (adaptado para fins educacionais)

QUESTÃO 01 – Qual a definição de ciência e de tecnologia propostas por Wilson * (1999) e Skolnikoff (1993), respectivamente?

Sua resposta



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Sua resposta

QUESTÃO 03 – De acordo com o artigo, quais foram as mudanças mais significativas provocadas pela ciência e tecnologia na sociedade?

*

Sua resposta

QUESTÃO 04 – Como era entendida a relação entre tecnologia e ciência e em qual período da história essa compreensão foi modificada?

*

Sua resposta

QUESTÃO 05 – Quais são os avanços significativos feitos pela ciência e tecnologia em diversos campos (do conhecimento) e qual é o evento histórico que marca esse feito?

*

Sua resposta

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