



ZIMBABWE SCHOOL EXAMINATIONS COUNCIL
General Certificate of Education Advanced Level

AGRICULTURAL ENGINEERING

6048/1

PAPER 1 Multiple Choice

SPECIMEN PAPER

1 hour

Additional materials:

Multiple Choice answer sheet,

Soft clean eraser,

Soft pencil (type B or HB is recommended),

Electronic calculator.

TIME 1 hour

INSTRUCTIONS TO CANDIDATES

Do not open this booklet until you are told to do so.

Write your name, Centre number and candidate number on the answer sheet in the spaces provided unless this has already been done for you.

There are **forty** questions in this paper. Answer **all** questions. For each question there are four possible answers, **A, B, C** and **D**. Choose the **one** you consider correct and record your choice in **soft pencil** on the separate answer sheet.

Read very carefully the instructions on the answer sheet.

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Each correct answer will score one mark.

Any rough working should be done in this booklet.

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**Shruti Kanga, Suraj Kumar
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Teacher in Zimbabwe ,2014 *Rhodesians Worldwide* ,2002 Transforming Agricultural Management for a Sustainable Future Shruti Kanga,Suraj Kumar Singh,Khetan Shevkani,Vamdev Pathak,Bhartendu Sajan,2024 Transforming Agricultural Management for a Sustainable Future Climate Change and Machine Learning Perspectives is an essential read for anyone interested in the future of agriculture and the role that technology can play in mitigating the impact of climate change The book delves into the challenges facing agriculture today such as climate change soil degradation and water scarcity It then explores how machine learning can be used to overcome these challenges and promote sustainable agricultural practices One of the key takeaways from the book is the importance of data driven decision making in agriculture With the help of machine learning algorithms farmers can analyze vast amounts of data such as weather patterns soil quality and crop yields to make informed decisions about planting irrigation and fertilizer use By using this data farmers can optimize their yields while minimizing their impact on the environment Another important aspect of the book is its focus on climate change Agriculture is one of the largest contributors to greenhouse gas emissions and farmers are already feeling the impact of climate change through droughts floods and other extreme weather events The book provides a comprehensive overview of the ways in which machine learning can be used to reduce the impact of agriculture on the environment such as by optimizing irrigation and reducing fertilizer use The book also explores the role of technology in promoting sustainable agriculture practices For example precision agriculture techniques such as GPS guided tractors and drones can help farmers reduce waste and improve crop yields The book provides examples of how these techniques are already being used in practice and how they can be further developed to promote sustainability Overall Transforming Agricultural Management for a Sustainable Future Climate Change and Machine Learning Perspectives is an insightful and informative read for anyone interested in the future of agriculture The book provides a comprehensive overview of the challenges facing agriculture today and the ways in which technology can be used to overcome these challenges and promote sustainable practices It is a must read for farmers policymakers and anyone interested in the future of our planet

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