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Sustainable Agriculture:

An Update

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Prof. Saba Siddiqui
Dr. Deepti Srivastava



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SUSTAINABLE AGRICULTURE: AN UPDATE

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TABLE OF CONTENTS

S. NO.	TOPIC	PAGE NO.
1.	Introduction to Sustainable Agriculture: Economic and Environmental Impact <i>Ruqaiya Bano</i>	1 - 18
2.	Propagation and Nursery Management for Sustainability <i>Muzeev Ahmad</i>	19 - 28
3.	Role of Biofertilizer in Sustainable Agriculture <i>Dr Pallavi Srivastava</i>	30 - 42
4.	Integrated Nutrient Management for Sustainable Agriculture <i>Khalid Habib and P. Smriti Rao</i>	43 - 55
5.	Integrated Pest Management for Sustainable Agriculture <i>Kalpana Bisht and Sunil Kumar Yadav</i>	56 - 75
6.	Organic farming of field crops for sustainability <i>Dr Abhineet</i>	76 - 137
7.	Organic farming of Horticultural crops for sustainability <i>Sanket Kumar</i>	138 - 171
8.	Precision Agriculture: An update <i>Ambreesh Singh Yadav</i>	172 - 190
9.	Role of Agroforestry for Sustainability <i>Dr Ayush Bhushan</i>	191 - 254

10. The role of Extension Education in Sustainable Agriculture 255 - 269
Akanksha Singh and Sunil Kumar
11. Soil microbial diversity and agricultural sustainability 270 - 288
Faria Fatima, Saba Siddiqui
12. Sustainable Agriculture and Climate Change 289 - 304
Nitish Kumar
13. Innovations and Future Directions in Sustainable Agriculture 305 - 233
Sunil Kumar, Mustafa Hussain

CHAPTER -12

Sustainable Agriculture and Climate Change

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INTRODUCTION

The future of sustainable development and humanity are gravely threatened by climate change. It is thought to be typified by severe and erratic weather, variations in the pattern of precipitation, and general environmental deterioration. As a result, studies and contentious discussions have centered on climate change and its causes. Although in the past, climate change has been caused by natural processes like solar flare-ups, volcanism, floods, storms, and meteorite falls, most people think that human activity is the primary cause of current global warming. Here, we provide a quick overview of the origins, effects, and threats posed to agriculture and food security by climate change and global warming (IPCC. 2007).

The greatest threat to human civilization is caused by climate change, global warming, and environmental degradation. Global temperature change, estimated at 0.8–1.0°C since 1880, is manifested in declining polar ice sheets, receding mountain glaciers, rising sea levels, and ocean acidification. Temperature records on land and at sea also support this theory. Most people agree that the current state of global warming is caused by the buildup of greenhouse gases in the atmosphere, most notably CO₂, which is a byproduct of burning hydrocarbons for home and industrial, and power generation purposes. Sea level rise, uncontrollably dangerous weather patterns, natural disasters (such as floods), breakdown of current infrastructure and communication systems, melting of