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MEMORANDUM**

**MARKS: 150**

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This memorandum consists of 11 pages.

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# Agric Grade November 2014

**CL Gary**

## Agric Grade November 2014:

*Spectroscopy of Tropical Fruits: Sala Mango and B10 Carambola (Penerbit USM) Ommi Kalsom Mardziah Yahaya,Ahmad Fairuz Omar,2017* This research work plays an important role in transforming current conventional methodology in fruit quality definition and evaluation into scientific and technological objectives and implementation Conventional definition in evaluating fruit quality is based on its physical attributes such as colour size shape and percentage of physical defects While the conventional practice is dominating fruit industry the efforts to transform this conventional definition towards a more valuable and scientific interpretation has been put forth by various research groups worldwide For every presented variable evaluating or quantifying methodologies will be introduced and promoted by scientific societies Similarly to fruit quality evaluation several methodologies have been introduced based on its physical or intrinsic definition Despite many efforts that have been carried out in this research area gaps still exist for the new research to take place especially in the area related to development of low cost measuring system miniature and mobile system online monitoring system with rapid time of measurement and high accuracy and precision measurement algorithm Hence this book is written particularly to explore the ability of visible and near infrared spectroscopy in quantitatively determining fruit intrinsic qualities with in depth case studies on two prominent tropical fruits Sala mango and B10 carambola

**Herbicide Residue Research in India** Shobha Sondhia,Partha P. Choudhury,A.R. Sharma,2018-10-30 Herbicides constitute about 60% of the total pesticides consumed globally In India the use of herbicides started initially in tea gardens and picked up in the 1970s when the high yielding varieties of rice and wheat were introduced Presently 67 herbicides are registered in the country for controlling weeds in crops including cereals pulses oilseeds fibre and tuber crops and also in the non crop situations These chemicals are becoming increasingly popular because of their efficiency and relatively low cost compared with manual or mechanical weeding operations The contribution of herbicide to total pesticide use which was only 10 15% during the first decade of the 21st century has now increased to about 25% with an annual growth rate of 15 20% which is much higher than insecticides and fungicides Though the application of herbicides is minimizing yield loss to a great extent their residues in the food chain and surface and groundwater create some environmental nuisance particularly to non target organisms Research on pesticide residues in India was started during 1970s when such chemicals were introduced on a greater scale along with high yielding variety seeds irrigation and chemical fertilizers for increasing food production However the herbicide residue research was not given much emphasis until 1990s The Indian Council of Agricultural Research initiated a national level programme known as All India Coordinated Research Project on Weed Management through the NRC Weed Science as the main centre along with some centers of ICAR Institutes and state agricultural universities Over the last two decades adequate information was generated on estimation degradation and mitigation of herbicide residues which were documented in annual reports bulletins monographs and scientific articles However there was no consolidated compilation of all the

available information providing a critical analysis of herbicide residues Accordingly an effort has been made in the publication to compile the available information on herbicide residues in India This is the first report of its kind which presents the findings of herbicide residues and their interactions in the biotic and abiotic environment There are 16 chapters contributed by the leading herbicide residue scientists each describing the present status of herbicide use crops and cropping systems monitoring degradation and mitigation followed by conclusions and future lines of work This book will be useful to the weed scientists in general and herbicide residue chemists in particular besides the policy makers students and all those concerned with the agricultural production in the country ***The Chemical Story of Olive Oil*** Richard Blatchly,Zeynep Delen Nircan,Patricia O'Hara,2017-02-21

Despite the growing interest in olive oil most people know very little about what it is or how it is made This book provides a comprehensive treatment of olive oil from the tree to table from a molecular and personal perspective Growers often do not know what is happening at a molecular level or why certain practices produce superior or inferior results for example why adjusting a temperature rewards them with winning oils This book aims to provide some of the answers as well as the importance of the chemicals responsible for the flavour and health effects Readers will also get a deeper understanding of what makes an extra virgin olive oil authentic and how scientists are helping to fight fraud regarding this valuable commodity Including anecdotes from growers of olives and producers of oils the authors provide an accessible text for a wide audience from food science students to readers interested in the human story of olive oil production

**Agarwood** Rozi Mohamed,2016-06-01 This book gives readers new information to understand the mechanism of agarwood induction and therefore eradicate the myths surrounding agarwood formation One of the challenges in conserving agarwood resources is species identification In this book taxonomy and systematics of agarwood producing trees from historical and recent perspectives is discussed and tips are given for identifying cultivated species In addition color illustrations are given to highlight vegetative and reproductive characteristics as well as anatomical features for identification purposes of both plant and agarwood sources Another challenge that planters are facing is in acquiring the correct method for agarwood induction thus development of agarwood induction technologies will be reviewed A chapter dedicated to bioinduction is included The book will comprise a chapter on the use of non destructive technology as a management tool for cultivating agarwood The book also discusses issues relating to agarwood grades The absence of an international standard that is acceptable by producer and consumer countries further complicates the issue Other useful information includes a systematic revelation of agarwood constituents and their complex chemistry and highlights on a specific pharmaceutical property

***The Uganda Gazette*** Uganda,2015-12 ***The Philippine Agricultural Scientist*** ,2014

**Tropical Roots and Tubers** Harish K. Sharma,Nicolas Y. Njintang,Rekha S. Singhal,Pragati Kaushal,2016-08-24 Roots and tubers are considered as the most important food crops after cereals and contribute significantly to sustainable development income generation and food security especially in the tropical regions The perishable nature of roots and tubers demands

appropriate storage conditions at different stages starting from farmers to its final consumers Because of their highly perishable nature search for efficient and better methods of preservation processing have been continuing alongside the developments in different arena This book covers the processing and technological aspects of root and tuber foods detailing the production and processing of roots and tubers such as taro cassava sweet potato yam and elephant foot yam Featuring chapters on anatomy taxonomy and physiology molecular and biochemical characterization GAP GMP HACCP Storage techniques as well as the latest technological interventions in Taro Cassava Sweet potato yam and Elephant foot Yam

**Evaluation Technologies for Food Quality** Jian Zhong,Xichang Wang,2019-04-16 Evaluation Technologies for Food Quality summarizes food quality evaluation technologies which include sensory evaluation techniques and chemical and physical analysis In particular the book introduces many novel micro and nano evaluation techniques such as atomic force microscopy scanning electron microscopy and other nanomaterial based methods All topics cover basic principles procedures advantages limitations recent technology development and application progress in different types of foods This book is a valuable resource for scientists in the field of food science engineering and professionals in the food industry as well as for undergraduate and postgraduate students studying food quality evaluation technology Explains basic principles procedures advantages limitations and current applications of recent food quality technologies Provides guidance on the understanding and application of food quality evaluation technology in the field of food research and food industry Introduces many novel micro nano evaluation techniques such as atomic force and scanning electron microscopies and other nanomaterial based methods

*The Indian Journal of Agricultural Sciences* ,2016-07 **Value-Addition in Food Products and Processing Through Enzyme Technology** Mohammed Kuddus,Cristobal Noe Aguilar,2021-12-01 Value Addition in Food Products and Processing using Enzyme Technology offers an updated review regarding the potential impact of new enzymes and enzyme technology on the food sector The book brings together novel sources and technologies regarding enzymes in value added food development food production food processing food preservation food engineering and food biotechnology It will be extremely useful for different types of readers including food scientists academic and food biotechnologists but will also be ideal for students studying food related courses This book includes concise and up to date research information from multiple independent scientific papers from around the world This is a essential multidisciplinary text for research and development professionals research scientists and academics in food biotechnology and agriculture industries It addresses safety issues and includes the sources screening immobilization and application of food grade enzymes in food Presents research data from experts Includes emerging industry topics such as baby food and food safety Offers methodologies of enzymes in diagnostics for food testing and analysis Emphasizes enzyme technology through a microbial biotechnological lens Includes bakery and confectionery products meat and poultry products vegetables food ingredients functional foods flavors and food additives and seafood

**Trade Policy Review** ,2018 South African journal of agricultural science ,1960

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