



महाराष्ट्र राज्य पाठ्यपुस्तक निर्मिती व अभ्यासक्रम संशोधन मंडळ

'बालभारती', सेनापती बापट मार्ग, पुणे-४११००४.

फोन : ०२०-२५६५९४६५/६६/६७/६८

क्रमांक : ह/भाषा-भाषेतर/१०९१५

दिनांक : १८.२.२०१९

प्रति,

डॉ. वाजिद खान (अध्यक्ष अन्वयशास्त्र)

विषय : इयत्ता अकरावी व बारावी विषययोजना व मूल्यमोपन योजनेसंबंधी एकत्रित सभा...

महोदय/महोदया

प्राथमिक शिक्षण अभ्यासक्रम २०१२ व त्याचे पुनरावलोकनानुसार शालेय वर्ष २०१९-२० साठी महाराष्ट्र राज्य पाठ्यपुस्तक निर्मिती व अभ्यासक्रम संशोधन मंडळामार्फत इयत्ता दुसरी व इयत्ता अकरावीची पाठ्यपुस्तके नव्याने तयार करण्यात येत आहेत.

इयत्ता अकरावी व बारावी (उच्च माध्यमिक स्तर) पुनर्रचित अभ्यासक्रम व विषययोजना तयार करून त्यानुसार इयत्ता अकरावी व बारावीच्या पाठ्यपुस्तकांची निर्मिती व त्यावर आधारित मूल्यमापन योजना तयार करण्याचे प्रस्तावित आहे. त्या अनुषंगाने इयत्ता अकरावी व बारावीच्या पाठ्यपुस्तकांची निर्मिती व मूल्यमापन योजनेबाबत सविस्तर चर्चा करण्यासाठी दिनांक २२.२.२०१९ रोजी महाराष्ट्र राज्य पाठ्यपुस्तक निर्मिती व अभ्यासक्रम संशोधन मंडळ, पुणे येथे सकाळी १०.३० वाजता सभा आयोजित करण्यात आलेली आहे. सदरहू सभेस कृपया आपण उपस्थित राहावे, ही विनंती.

विशेषाधिकारी  
पाठ्यपुस्तक मंडळ, पुणे ४.

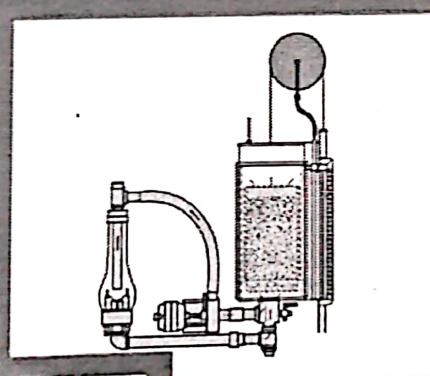
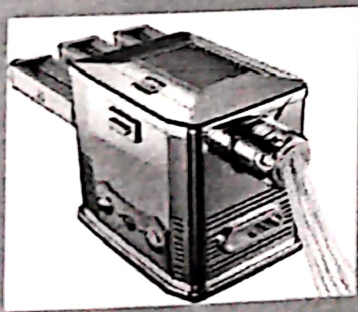
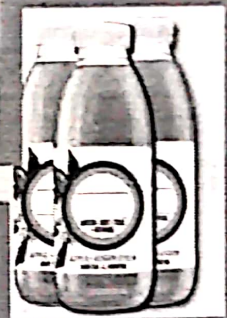
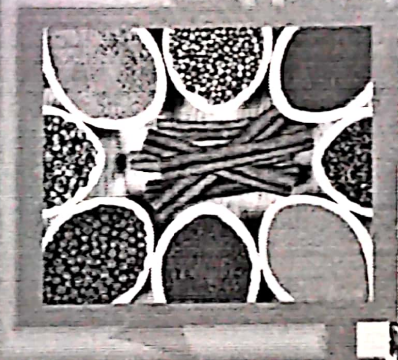
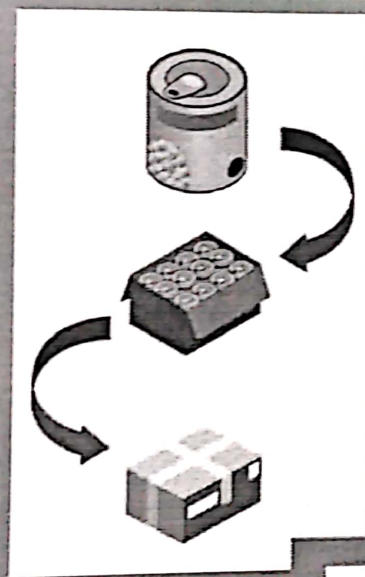


Tuljaram  
Principal  
Tuljaram Chaturchand College  
Baramati



# FOOD SCIENCE AND TECHNOLOGY

## Standard XI



Principal  
Tuljaram Chaturchand College  
Baramati

First Edition :  
2019  
Reprint : 2020

© Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune - 411 004.  
The Maharashtra State Bureau of Textbook Production and Curriculum Research reserves all rights relating to the book. No part of this book should be reproduced without the written permission of the Director, Maharashtra State Bureau of Textbook Production and Curriculum Research, 'Balbharati', Senapati Bapat Marg, Pune 411004.

**Subject Committee:**

Dr. Wazid Ali Khan  
(Chairman)

Dr. Naikare Shriram Maruti

Dr. Anuradha Anil Nagpal

Dr. Madhuri V. Kaley

Dr. Rahul C. Ranveer

Dr. Jayshila Baswant Manohar

Dr. Abhijeet Arun Gatade

Dr. Rinku Sudarshan Agrawal

Dr. Shalini S. Arya

Mrs. Mittal Vaibhav Upadhyay

Dr. Iranna S. Udachan

Shri. Rajiv Arun Patole

(Member Secretary)

**Illustrations and cover**  
Shri Vivekanand S. Patil

**Coordinator**

Shri. Rajiv Arun Patole

**Special Officer**

(Food Science and Technology)

**Typesetting**

DTP Section, Textbook Bureau, Pune

**Paper**

70 GSM Creamwove

**Print Order**

**Printer**

**Production :**

**Shri Sachchitanand Aphale**

Chief Production Officer

**Shri Liladhar Atram**

Production Officer

**Reviewer :**

Dr. Chandrashekhar V. Murumkar

**Publisher :**

**Shri Vivek Uttam Gosavi**

**Controller**

Maharashtra State Textbook

Bureau, Prabhadevi,

Mumbai - 400 025

**Chief Co-ordinator**

**Smt. Prachi Ravindra Sathe**





# FOOD SCIENCE AND TECHNOLOGY

## Standard XII



First Edition :  
2020

© Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune - 411 004.  
The Maharashtra State Bureau of Textbook Production and Curriculum Research reserves all rights relating to the book. No part of this book should be reproduced without the written permission of the Director, Maharashtra State Bureau of Textbook Production and Curriculum Research, 'Balbharati', Senapati Bapat Marg, Pune 411004.

### Subject Committee

Dr. Wazid Ali Khan  
(Chairman)

Dr. Naikare Shriram Maruti

Dr. Anuradha Anil Nagpal

Dr. Madhuri V. Kaley

Dr. Abhijeet Arun Gatade

Dr. Rinku Sudarshan Agrawal

Dr. Jayshila Manohar Baswant

Dr. Iranna S. Udachan

Shri. Rajiv Arun Patole  
(Member Secretary)

### Coordinator

**Shri. Rajiv Arun Patole**  
Special Officer Science  
Food Science and Technology

### Illustrations and cover

Shri Vivekanand S. Patil

### Typesetting

DTP Section, Textbook Bureau, Pune

### Paper

70 GSM Creamwove

### Print Order

### Printer

### Production

**Shri Sachchitanand Aphale**

Chief Production Officer

**Shri Liladhar Atram**

Production Officer

### Review Committee

Dr. Chandrashekhar V. Murumkar,

Dr. Naikare Shriram Maruti

### Publisher

**Shri Vivek Uttam Gosavi**

Controller

Maharashtra State Textbook

Bureau, Prabhadevi,

Mumbai - 400 025



Principal  
Tuljaram Chaturchand College  
Baramati

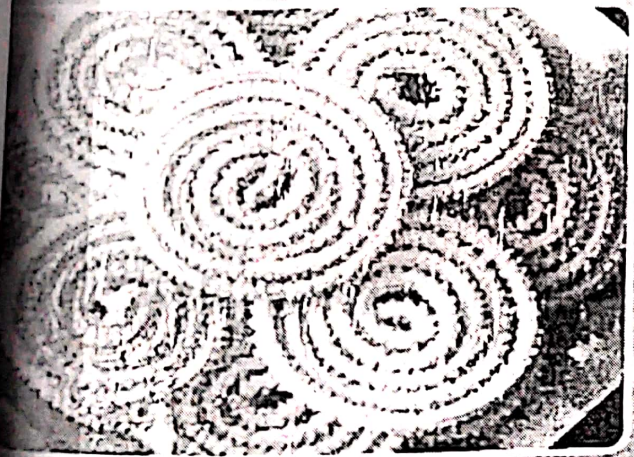
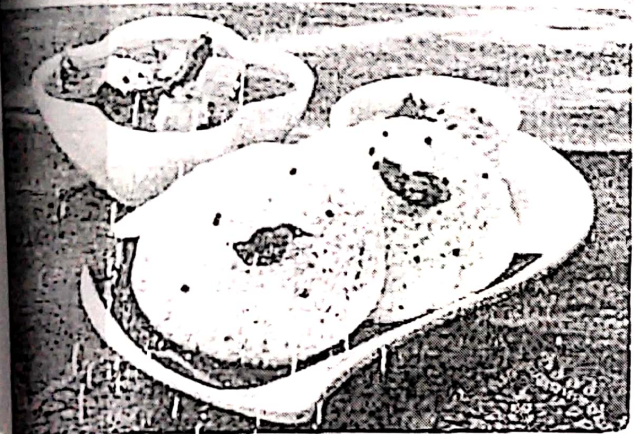




# Food Science and Technology

## Practical Notebook

### Standard XI



Principal  
Tuljaram Chaturhand College  
Barāmahi

First Edition : 2020 © Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune 411004.

Maharashtra State Bureau of Textbook Production and Curriculum Research reserves all rights relating to the practical notebook. No part of this book should be reproduced without the written permission of the director, Maharashtra State Bureau of Textbook Production and Curriculum Research.

**Subject Committee:**

Dr. Wazid Ali Khan  
(Chairman)

Dr. Shriram Maruti Naikare

Dr. Anuradha Anil Nagpal

Dr. Madhuri V. Kaley

Dr. Rahul C. Ranveer

Dr. Abhijeet Arun Gatade

Dr. Rinku Sudarshan Agrawal

Dr. Shalini Arya

Dr. Mittal Vaibhav Upadhyay

Dr. Jayshila Baswant Manohar

Dr. Irana S. Udchan

Shri. Rajiv Arun Patole  
(Member Secretary)

**Scrutiny and Review :**

Dr. Wazid Ali Khan

Dr. Shriram Maruti Naikare

Dr. Abhijeet Arun Gatade

Dr. Anuradha Anil Nagpal

**Cover :**

Yogiraj Balaji Indurkar, Pune

**Illustrations :**

Shri. Vivekanand Shivshankar Patil

**Typesetting :**

DTP Section, Textbook Bureau, Pune

**Coordination**

Shri. Rajiv Arun Patole  
Special Officer - Science Section  
Food Science and Technology  
Textbook Bureau, Pune.

Paper : 70 GSM Creamwove

Print Order : N/PB/2020-21/1,000

Printer : Shree Printers, Pune

**Production :**

Shri. Sachchitanand Aphale  
Chief Production Officer  
Shri. Liladhar Atram  
Production Officer

**Publisher :**

Shri. Vivek Uttam Gosavi  
Controller  
Maharashtra State Textbook  
Bureau, Prabhadevi,  
Mumbai - 400 025.



Principal  
Tuljaram Chaturchand College  
Baramati

Copyright © but we have not heard from  
the author in addition if we learn from them



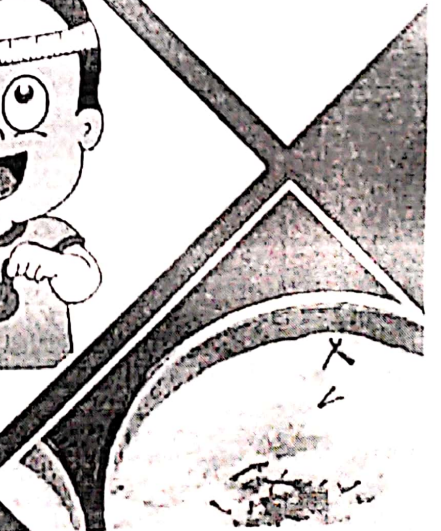
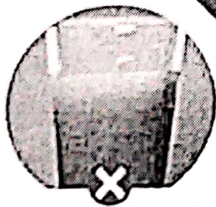
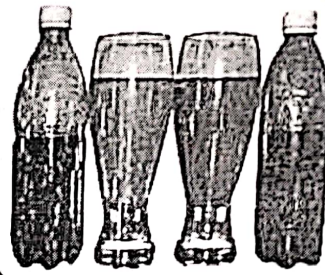
Scanned with OKEN Scanner



# Food Science and Technology

## Practical Notebook

### Standard XII



Principal  
Tuljaram Chaturchand College  
Baramati



Scanned with OKEN Scanner



First Edition : 2020 ©  
Reprint : 2021

Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune 411004.  
Maharashtra State Bureau of Textbook Production and Curriculum Research reserves all rights relating to the practical notebook. No part of this book should be reproduced without the written permission of the director, Maharashtra State Bureau of Textbook Production and Curriculum Research.

**Subject Committee:**

Dr. Wazid Ali Khan  
(Chairman)

Dr. Shriram Maruti Naikare

Dr. Abhijeet Arun Gatade

Dr. Anuradha Anil Nagpal

Dr. Madhuri V. Kaley

Dr. Rinku Sudarshan Agrawal

Dr. Jayshila Baswant Manohar

Shri. Rajiv Arun Patole  
(Member Secretary)

**Cover :**

Yogiraj Balaji Indurkar, Pune

**Illustrations :**

Shri. Vivekanand Shivshankar Patil

**Typesetting :**

DTP Section, Textbook Bureau, Pune

**Coordination**

**Shri. Rajiv Arun Patole**  
Special Officer - Science Section  
Food Science and Technology  
Textbook Bureau, Pune.

Paper : 70 GSM Creamwove

Print Order : N/PB/2021-22/2,000

Printer : Shree Printers, Pune

**Production :**

**Shri. Sachchitanand Aphale**  
Chief Production Officer  
**Shri. Liladhar Atram**  
Production Officer

**Publisher :**

**Shri. Vivek Uttam Gosavi**  
Controller  
Maharashtra State Textbook  
Bureau, Prabhadevi,  
Mumbai - 400 025.

**Scrutiny and Review :**

Dr. Wazid Ali Khan

Dr. Shriram Maruti Naikare

Dr. Abhijeet Arun Gatade

Dr. Anuradha Anil Nagpal



Principal  
Tuljaram Chaturchand College  
Baramati

DISCLAIMER Note: All attempts have been made to contact copy righters © but we have not heard from them. We will be happy to contact the holder (s) in our next edition if we learn from them.