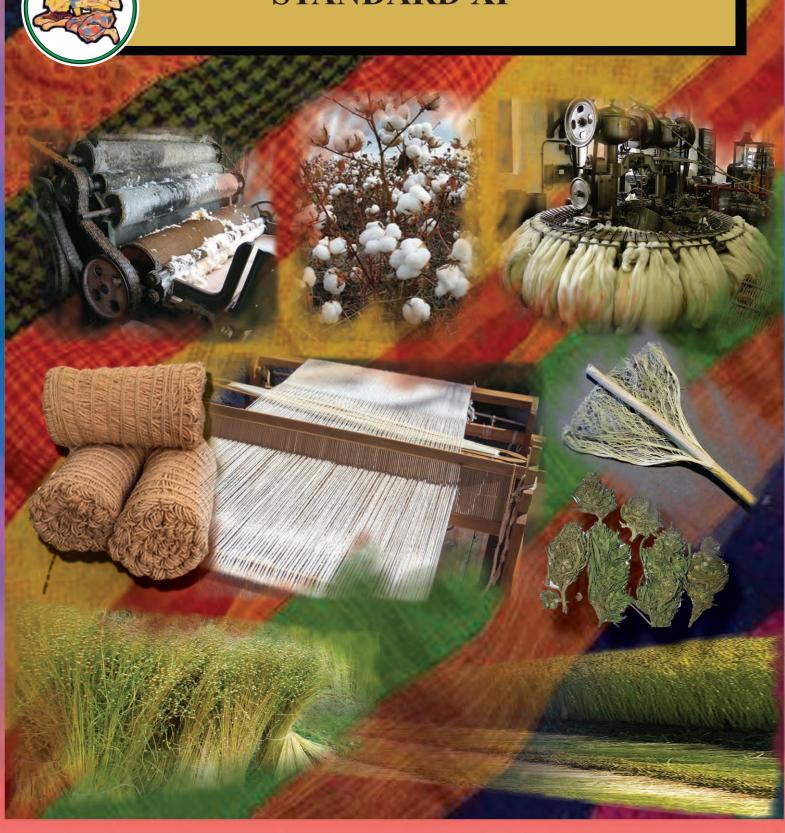
TEXTICS





The Constitution of India

Chapter IV A

Fundamental Duties

ARTICLE 51A

Fundamental Duties- It shall be the duty of every citizen of India-

- (a) to abide by the Constitution and respect its ideals and institutions, the National Flag and the National Anthem;
- (b) to cherish and follow the noble ideals which inspired our national struggle for freedom;
- (c) to uphold and protect the sovereignty, unity and integrity of India;
- (d) to defend the country and render national service when called upon to do so:
- (e) to promote harmony and the spirit of common brotherhood amongst all the people of India transcending religious, linguistic and regional or sectional diversities, to renounce practices derogatory to the dignity of women;
- (f) to value and preserve the rich heritage of our composite culture;
- (g) to protect and improve the natural environment including forests, lakes, rivers and wild life and to have compassion for living creatures;
- (h) to develop the scientific temper, humanism and the spirit of inquiry and reform;
- (i) to safeguard public property and to abjure violence;
- to strive towards excellence in all spheres of individual and collective activity so that the nation constantly rises to higher levels of endeavour and achievement;
- (k) who is a parent or guardian to provide opportunities for education to his child or, as the case may be, ward between the age of six and fourteen years.

The coordination committee formed by G.R.No.Abhyas-2116/(pra.kra43/16)SD-4 dated 25.4.2016 has given approval to prescribe this textbook in its meeting held on 20.06.2019 and it has been decided to implement it from academic year 2019-2020.

TEXTILES

STANDARD XI



Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune - 411 004



The digital textbook can be obtained through DIKSHA APP on a smartphone by using the Q.R.Code given on title page of the textbook. On this Q.R.Code audio-visual teaching-learning material of the relevant lesson will be available.

First Edition: 2019

Reprint: 2022

© Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune- 411 004.

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, Pune.

Textiles Subject Committee

Mrs. Maneesha Pandit (Chairman)
Mrs. Varsha Gatpande (Member)
Mrs. Sonali Kapoor (Member)
Mrs. Ujwala Hirkude (Member)
Mrs. Sheetal Thakre (Member)

Smt. Ketaki Jani (Member-Secretary)

Cover, Illustrations and Computer Drawings

Shri. Gaurav Gogawale

Typesetter

Baladev Computers

Production

Sachchitanand Aphale

Chief Production Officer

Prabhakar Parab

Production Officer

Shashank Kanikdale

Asst. Production Officer

Paper

70 GSM Cream wove **Print Order No.**

Printer

Co-ordinator

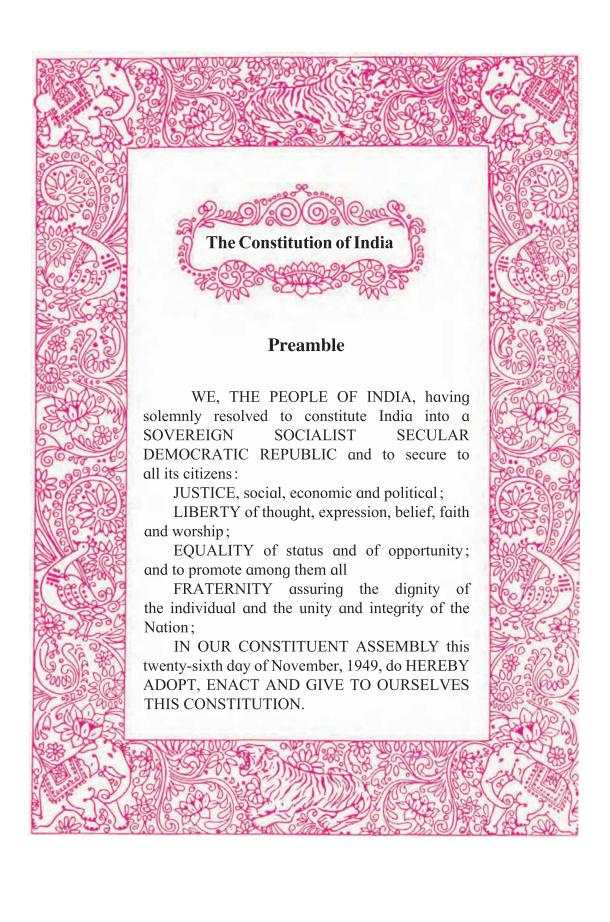
Ketaki Jani

Spl. Officer Gujarati

Publisher

Vivek Uttam Gosavi, Controller

Maharashtra State Textbook Bureau, Prabhadevi Mumbai- 400 025



NATIONAL ANTHEM

Jana-gana-mana-adhināyaka jaya hē Bhārata-bhāgya-vidhātā,

Panjāba-Sindhu-Gujarāta-Marāthā Drāvida-Utkala-Banga

Vindhya-Himāchala-Yamunā-Gangā uchchala-jaladhi-taranga

Tava subha nāmē jāgē, tava subha āsisa māgē, gāhē tava jaya-gāthā,

Jana-gana-mangala-dāyaka jaya hē Bhārata-bhāgya-vidhātā,

Jaya hē, Jaya hē, Jaya hē, Jaya jaya jaya, jaya hē.

PLEDGE

India is my country. All Indians are my brothers and sisters.

I love my country, and I am proud of its rich and varied heritage. I shall always strive to be worthy of it.

I shall give my parents, teachers and all elders respect, and treat everyone with courtesy.

To my country and my people, I pledge my devotion. In their well-being and prosperity alone lies my happiness.

INTRODUCTION

Dear Students,

It gives me immense pleasure to render you the copy of Textiles Text Book in an interesting format. The syllabus has benn upgraded with the current knowledge of concopt and developments of new natural fiber, theri nature, origin, manufacturing use and care.

THe Textbook is designed for students who desire to gain a fundamental knowledge of a creative production and utilization of the fabric with emphasis on the Handlooms and Textiles of the states of India. The topics have covered a huge variety of ideas, informations and advices about the cultural and historical background about the different fabrics, finishes, designs, laundry equipements and techniques of using laundry equipments.

The practical knowledge has been given in the syllabus for the students to practice and understand the application of each topics. Eg. Fiber identification, label indentification etc. The students will be prepared to deal with the problems of consumers and be a wise consumer.

The Complete Team of Committee of Authors and Artists were involved in laying out the foundation of their new book with creative and colourful pictures and illustrations to arouse the asthetic and creative sense of the students. This book has Q.R. Code which will help the students in quick understanding and grasping the subject matter with ease.

The book contains glossary, Bibiliography, and websites at the end of more information.

Thanks to the committee of Authors, Artists, Maharashtra State Bureau of Textbook, Production and Curriculum Research for the timely production of the Textbook in an Excellent form.

Thanks to the team of expert reviewers for their valuable advice.

The committee hopes that the students enjoy and gain the basic knowledge of the subjects. All the best wishes for your future eductional career.



(Dr. Sunil Magar)
Director

Date : 20 June 2019

Pune

Maharashtra State Bureau of Textbook

Bharatiya Saur Dinank: 30 Jyeshtha 1941 Production and Curriculum Research, Pune



Dear Teachers,

Ф

It gives us immense pleasure to handover this very interesting textbook of XIthe standard Textiles to you all.

The book gives an insight about the basic concepts and terminology for textiles fibres, their history and development over the years. It also talks about the manufacturing, properties and uses of Natural Cellulosic fibres. Keeping the current trend of development and growing popularity of other natual fibres in mind - especially at an alternative to synthetic fibres which are not eco friendly - a whole new chapter has been introduced about them. The book deals with manufacturing up to the Yarn stage and a glimpse of different kinds of yarns made and their uses. Keeping the applied component of the subject in mind a chapter has been devoted to Cunsumers & Textile market, which deals with the challenges faced by the consumers as well as provides knowledge about different types of labels, purchasing and storage & care of textiles. A chapter about Household Textile has also been included keeping in mind the applied component. The basic concepts about laundry and ironing have been covered too. A special chapter has been introduced for the students to develop at interest in handloom as well as the rich cultural heritage of Indian traditional textiles.

The Practical part includes basic knowledge about various sewing equipment, sewing machine as well as basic of stitching. It also includes basics of ironing. There are practicals for identification of fibres and collection and identification of labels. Guidelines for Project Work have also been provided.

The book has been written in a very simple language with lots of communication with the reader and lots of activities for the students. The colourful pictures, various charts, tables and diagrams not only make the book a delight to read but also makes it easy for the students to understand the concepts.

A special feature introduced for the first time is that a QR code has been provided. The students as well as teachers can click onto if for further information, summary, videos, additional photos, more exercises and types of questions. This use of technology will surely make the book and the subject more interesting for the students.

The Board of Studies, authors, reviewers, artists and office staff have put in a lot of effort to make the book interesting, aesthetically appealing and also to get it ready in time.

Hope you all will accept and enjoy leaning from this book from the current academic year.

STUDENT'S LEARNING OUTCOME

| No. | UNIT | Learning Outcome | |
|-----|---|--|--|
| 1. | Introduction To Textiles | Explains the history of the fibres. Understands the meaning and scope of fibres, yarns, fabrics. Obtains information regarding the different properties of textile fibres. | |
| 2. | Cotton | Understands the cultiviation of textiles fibers and manufacturing process of the Cotton fibre & Linen fibre. Studies the properties of the cotton fibres & Linen fiber Understands the uses and applicability of the Cotton fibre & Linen fibre. | |
| 3. | Linen | Understands the cultiviation of textiles fibers and manufacturing process of the Cotton fibre & Linen fibre. Studies the properties of the cotton fibres & Linen fiber Understands the uses and applicability of the Cotton fibre & Linen fibre. | |
| 4. | Miscelloneous Cellulosic Fibres & Asbestos | Throws light on the development of new cellulosic fibres. Understands the opportunities and developments of the new fibers. Obtains information regarding the uses of the new fibres. | |
| 5. | Yarns | Explains the concepts and terms used in the yarns formation. Understands the classification and Application of the simple yarn and novelty yarns. | |
| 6. | Consumer & Textile Market | Highlights the purchase of Textiles. Throws light on the problems of a consumer and Remedies to solve it. Obtains Information regarding. Labels and Storage of different fabrics & care. | |

| 7. | Introduction To Laundry | Understands the objective of Laundry and importance of washing methods. Takes pride in achieving the skills of laundry, washing and ironing methods. |
|-----|----------------------------------|---|
| 8. | Ironing | Understands the objective of Laundry and importance of washing methods. Takes pride in achieving the skills of laundry, washing and ironing methods. |
| 9. | Household Textiles | Gains information about the uses and care of household textiles. |
| 10. | Traditional Textiles of India | Highlights the importance of the rich heritage of Indian textiles. Obtains knowledge and gains information about the unique traditional textiles state wise. |

CONTENTS

THEORY

| Unit | ١ | Title | Page No |
|------|---|--|---------|
| 1. | П | Introduction to Textiles. | 1 |
| 2. | П | Cotton | 15 |
| 3. | П | Linen | 26 |
| 4. | П | Miscellaneous cellulosic fibers and Asbestos | 37 |
| 5. | П | Yarns | 47 |
| 6. | П | Consumer and Textile Market | 57 |
| 7. | П | Introduction to Laundry | 72 |
| 8. | П | Ironing | 84 |
| 9. | П | Household Textiles | 89 |
| 10. | ı | Traditional Textiles of India. | 99 |

PRACTICALS

| Unit | ١ | Title | Page No |
|------|---|---|---------|
| 1. | П | Sewing Tools and accessories | 111 |
| 2. | П | Sewing Machine – Parts, Function and care | 114 |
| 3. | П | Stitching of Table cloth. | 117 |
| 4. | ı | Seams | 118 |
| 5. | П | Necklines | 119 |
| 6. | П | Ironing | 120 |
| 7. | П | Collection of Textile labels and Identification | 123 |
| 8. | ı | Identification of fibers by Microscopic Test | 124 |
| 9. | П | Identification of fibers by Burning Test | 125 |
| 10. | П | Maintenance of Journal | 125 |
| 11. | | Project | 126 |
| • | | Glossary | 127 |
| • | | Bibliography | 130 |
| • | П | Websites | 131 |