



# **GEOGRAPHY**

**STANDARD ELEVEN**

The Coordination Committee formed by GR No. Abhyas - 2116/(Pra.Kra.43/16) SD - 4 Dated 25.4.2016 has given approval to prescribe this textbook in its meeting held on 20.6.2019 and it has been decided to implement it from academic year 2019-20.

# GEOGRAPHY

## STANDARD ELEVEN



Download DIKSHA App on your smartphone. If you scan the Q.R. Code on this page of your textbook, you will be able to access full text. If you scan the Q.R. Code provided, you will be able to access audio-visual study material relevant to each lesson, provided as teaching and learning aids.



2019

**Maharashtra State Bureau of Textbook Production and  
Curriculum Research, Pune.**

**First Edition :** © Maharashtra State Bureau of Textbook Production and Curriculum Research, Pune - 411 004.  
2019

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.

### **Geography Subject Committee:**

Dr. N. J. Pawar, Chairman  
Dr. Suresh Jog, Member  
Dr. Rajani Manikrao Deshmukh, Member  
Shri Sanjaykumar G. Joshi, Member  
Dr. Kalyani Abhay Deshpande, Member  
Smt. Meena Sanjiv Khare, Member  
Shri Sachin Parshuram Aher, Member  
Smt. Kalpana Vishwas Mane, Member  
Shri Gourishankar Dattatray Khobare, Member  
Shri R. J. Jadhav, Member-Secretary

### **Geography Study Group:**

Smt. Samruddhi Milind Patwardhan  
Smt. Nilam Dnyaneshwar Deshmukh  
Dr. Hemant Mangeshrao Pednekar  
Dr. Kalpana Prabhakar Deshmukh  
Dr. Parmeshwar Vishwanathrao Poul  
Dr. Anna Dyandeo Garad  
Smt. Surekha Pradip Dounde  
Dr. Hanmant Laxman Narayankar  
Shri. Pravin Prakash Kokane  
Dr. Santosh Ganpati Jambhale  
Shri Amogi Tippana Shinge  
Shri Pandit Baburao Chavan

### **Chief Co-ordinator**

Smt. Prachi Ravindra Sathe

**Illustrations :** Shri Bhatu Ramdas Bagle

**Cover :** Shri Bhatu Ramdas Bagle

**Cartography :** Shri Ravikiran Jadhav

**Translation Coordination :**

Shri Ravikiran Jadhav

Special Officer (Geography)

**Typesetting :** DTP Section, Textbook Bureau, Pune

**Paper :** 70 GSM Creamwove

**Print Order :** N/PB/2019-20/(50,000)

**Printer :** M/s Renuka Binders, Pune

### **Production :**

Shri Sachchitanand Aphale

Chief Production Officer

Shri Vinod Gawde, Production Officer

Mrs. Mitali Shitap, Assistant Production Officer

### **Publisher :**

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



## **The Constitution of India**

### **Preamble**

WE, THE PEOPLE OF INDIA, having solemnly resolved to constitute India into a SOVEREIGN SOCIALIST SECULAR DEMOCRATIC REPUBLIC and to secure to all its citizens:

JUSTICE, social, economic and political;

LIBERTY of thought, expression, belief, faith and worship;

EQUALITY of status and of opportunity; and to promote among them all

FRATERNITY assuring the dignity of the individual and the unity and integrity of the Nation;

IN OUR CONSTITUENT ASSEMBLY this twenty-sixth day of November, 1949, do HEREBY ADOPT, ENACT AND GIVE TO OURSELVES THIS CONSTITUTION.

## 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.

## Preface

Dear Students,

You are welcome to Class XI. You have studied various concepts in Geography under Environmental Studies from Class 3 to Class 5 and in Social Studies from Class 6 to Class 10. Like other subjects, it gives me a great pleasure to present before you a separate textbook of Geography for 100 marks.

Broadly, it is accepted that Geography is the study of structure, processes and interactions between physical and human environment. Hence, the importance of the study of Physical Geography becomes imperative. At the Higher Secondary level, Physical geography has been included in Class XI textbook. We see that various physical factors are distributed in different parts of the earth. We see that this distribution is uneven and full of diversity. We also gain knowledge about specific patterns, describing and analysing them, scientific analysis and projecting about future. We have tried to bring integrity into the chapters by including the recent changes and their importance. It is very important to understand the cause-and-effect relationship when you study the components of the chapter. We have brought changes in Practical Geography according to contemporary times. This will help you get acquainted with the latest technology.

It is said that Geography is the science that lays stress on observation. Observation, cognition, critical thinking, analysis, etc are the skills required in this subject. Use these skills and develop them. Activities which stimulate your thinking power, imaginative power and creativity have been included in the textbook. Various educational tools have been used in the textbook to facilitate understanding of the concepts in the textbook. Through QR codes you can study more relevant information related to the components of the textbook. You can use the websites for this purpose.

You will surely like the textbook which associates with your daily life. Please let us know your views about it.

Best wishes to all of you!



(Dr Sunil Magar)

**Director**

**Pune**

**Date :** 20 June 2019

**Indian Solar Year :** 30 Jyaishta, 1941

Maharashtra State Bureau of Textbook  
Production and Curriculum Research, Pune

# Standard Eleven Geography

## Competencies

- Understanding why landforms on the earth keep changing
- Explaining the effects of Earth movements
- Explaining the specific areas on the global scale where earth movements occur
- Understanding the importance and processes of weathering and its types
- Describing the effects of weathering and erosional processes on the earth's surface
- Explaining the changes occurring on the earth's surface due to geological processes and human interference.
- Identifying the agents responsible for the formation of various landforms
- Explaining the process of landform formation
- Explaining the effect of various factors on processes of landform formation processes
- Identifying the landforms found in their surroundings and explaining their formation
- Understanding the relationship between climate and human life
- Understanding the basis of classification of various climatic regions
- Understanding various climatic regions in the world.
- Describing the co-relation between latitudes and climate.
- Understanding the reasons behind the global climate change
- Examining the role of humans in climate change
- Explaining the effects of global climate change
- Understanding the measures taken by India in facing climate change.
- Understanding the bottom relief of the Indian Ocean
- Examining the economic, political and strategic importance of Indian Ocean
- Examining the importance of Indian Ocean with India's context
- Explaining the importance of oceans in human life
- Understanding that in future we may have to solely depend on oceans
- Explaining the measures of reducing marine pollution
- Understanding the relationship between the species of flora and fauna and the geographical factors
- Estimating the animal and plant life on the basis of the climate of a region
- Understanding the importance of biomes and suggesting measures to conserve them.
- Understanding how disasters can be faced and responded
- Examining the roles of self, communities and administration during natural disasters.
- Understanding the importance of technology in disaster management

## Competencies (Practical)

- Understanding the importance of various isolines and the data they represent.
- Drawing isolines in between the given values
- Interpretation of isolines on the basis of the given data e.g. contours, isotherms, etc.
- Drawing a cross profile with the help of given contours in a toposheet
- Identifying landforms with the help of given contours
- Being able to interpret the toposheets with reference to its components.
- Interpreting the toposheets and drawing conclusions
- Understanding the symbols given on IMD weather maps and the various elements of weather.
- Interpreting the weather maps of various seasons and predicting the weather conditions.
- Geographically locating a place with the help of GPS
- Calculating area of a place with the help of GPS instrument
- Making a map of an area with the help of GPS
- Understanding the importance and applications of GPS in various fields.
- Experiencing various geographical factors in reality

## - For Teachers -

- ✓ To begin with, get familiar with the textbook yourself.
- ✓ Please understand the characteristics of the textbook carefully for the teaching-learning process.
- ✓ Please plan carefully and independently for the activities in each chapter. Please do not teach without planning.
- ✓ Participation of all students is very necessary in the teaching-learning interactions and processes.
- ✓ Please use the geographical teaching aids in the school as required for the appropriate understanding of the subject. It is necessary to use the globe, the maps of the World, India and the State, atlases, etc.
- ✓ The number of periods required for each chapter has been given a thought. Abstract concepts are difficult to follow and therefore you are expected to use the given number of periods fully. Do not finish the chapter in short. This will help the students to assimilate the content without feeling the 'burden of learning'.
- ✓ The chapters in the present book has been prepared for constructivist and activity-based teaching. Please do not teach the lessons in the book by just reading them aloud.
- ✓ Follow the order of the chapters as given in the contents because the concepts have been introduced in a graded manner to facilitate knowledge-building.
- ✓ Please refer to textbooks of earlier classes before teaching this textbook.
- ✓ Like other social sciences, geographical concepts too are not easy to understand. Major concepts of geography have a scientific base and they deal with abstractions. Encourage group work, learning through each other's help, etc. Facilitate peer learning as much as possible by reorganizing the class structure frequently.
- ✓ Do not ask questions on statistical information. Instead, ask questions on their trends or patterns.
- ✓ Do not use the boxes titled 'Do you know?' for evaluation.
- ✓ It is necessary to access supplementary material wherever specific website or use of Internet is indicated. Use QR Code given in the textbook. You as well as the students are expected to use these references. These references will surely help you to go beyond the textbook. Please bear in mind that extra reading is always helpful for understanding any subject in depth.
- ✓ Use thought-provoking, activity-oriented, open-ended, multiple choice questions for evaluation. Some examples are given at the end of the chapters in the 'exercises'. They follow the question paper pattern but not in the obvious sequence.
- ✓ It is compulsory to teach one example in a practical and get another one done from the students.
- ✓ Practical no. 12 to 15 should be carried out according to local conditions/availability.

## CONTENTS

Sr. No.	Name of the Chapters	Page No.	Proposed Periods
1.	Earth Movements	01 - 14	14
2.	Weathering and Mass Wasting	15 - 26	13
3.	Agents of Erosion	27 - 43	16
4.	Climatic Regions	44 - 57	15
5.	Global Climate Change	58 - 67	12
6.	Ocean Resources	68 - 74	12
7.	Indian Ocean - Relief and Strategic Importance	75 - 83	12
8.	Biomes	84 - 96	14
9.	Disaster Management	97 - 104	12
10.	Practicals	107 - 127	Six per practical

**S.O.I. Note :** The following foot notes are applicable : (1) © Government of India, Copyright : 2019. (2) The responsibility for the correctness of internal details rests with the publisher. (3) The territorial waters of India extend into the sea to a distance of twelve nautical miles measured from the appropriate base line. (4) The administrative headquarters of Chandigarh, Haryana and Punjab are at Chandigarh. (5) The interstate boundaries amongst Arunachal Pradesh, Assam and Meghalaya shown on this map are as interpreted from the “North-Eastern Areas (Reorganisation) Act. 1971,” but have yet to be verified. (6) The external boundaries and coastlines of India agree with the Record/Master Copy certified by Survey of India. (7) The state boundaries between Uttarakhand & Uttar Pradesh, Bihar & Jharkhand and Chattisgarh & Madhya Pradesh have not been verified by the Governments concerned. (8) The spellings of names in this map, have been taken from various sources.

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

**Front Cover and Back Cover :** A concept drawing of different physical features shown on the Earth's surface.

**Photo credits :** Miss Aalisha Jadhav and <https://www.wired.com/story/forget-space-oceans-need-exploring/>