ENVIRONMENT EDUACATION AND WATER SECURITY STANDARD ELEVEN





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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 20.06.2019 and it has been decided to implement it from academic year 2019-20.

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

CLASS 11 ENVIRONMENT EDUCATION AND WATER SECURITY

COMPETENCY STATEMENT

- Develop skills of observation and explore the natural and social environment, gradually moving from immediate to the wider environment.
- Develop a concrete understanding of integrated perspective of environment.
- Explore, understand, appreciate and value his/her opinion on local and regional environmental issues.
- Share the details of the observed objects/events/ phenomenon orally/ written/ drawings/any other ways of choice with reference to the explained/observed scope and importance of environment.
- This produces a deeper understanding of issues related to sustainability at national, state and local levels.
- Gain knowledge, discuss and appreciate the efforts of different organizations.
- Describe and document the efforts involved in supporting actions that shall positively affect the attitudes to subscribe to the vision and adopt global environmental welfare and eventually develop sensitivity towards concerned environmental issues.
- Accepts and takes responsibility in a more refined manner, poses questions and finds answers through reflection, discussion, designing and performing appropriate activities.
- Generate awareness, explore, share, narrate the natural and social environment from lived experiences.
- Understand the relationships between natural and social environment within and beyond classroom through the opportunity providing concrete learning experiences.
- Develop various processes/skills through the interaction with the natural and social environment.
- Generate an understanding of the classified structure and related function of ecosystems.
- Identify surroundings based on observable features, similarities and differences in ecosystems, sorts/groups features based on observations.
- Observe, relate, share and explain experiences about the dynamics of ecosystem, processes and phenomenon with causes.
- Finds an opportunity to apply learnt scientific concepts in day-to-day life.
- Relate to the real situations in their surroundings.
- Understand the term biodiversity and the levels of biodiversity.

CLASS 11 ENVIRONMENT EDUCATION AND WATER SECURITY

COMPETENCY STATEMENT

- Understand, get sensitized and be able to explain the values of biodiversity with the help of examples.
- Appreciate the variations/ diversity in natural and social environment and develop a scientific understanding of the variations and the need to respect them.
- Obtain information regarding 'India a megadiversity nation'.
- Explain the threats of biodiversity and its effects.
- Understand the conservation of biodiversity as a social responsibility.
- Explore different types of natural resources, appreciate the interdependence and interrelatedness of all living things and life support systems.
- Comprehend various environmental problems and develop necessary insights and attitudes towards solving them methodically.
- Collect the information of conservation of natural resources.
- Develop a concrete understanding of the risk of disasters and appreciate types and effects of natural and man-made disasters.
- Develop skills for preparedness before potential disasters and be able to prepare a disaster emergency kit and management strategie.
- Be equipped to avoid or to minimize damage during disasters following precautionary measures and systematic preparedness.
- Prove to be an immense aid for community welfare in managing the event.

- For Teachers -

To begin with, get familiar with the textbook yourself.

- Please refer to the related textbooks of earlier classes before teaching the topics of this textbook.
- Please plan carefully and independently for the activities of each chapter.
- The teaching-learning interactions, processes and participation of all students is necessary through your active guidance.
- Please use proper teaching aids in the class room for appropriate understanding of the subject such as audio-visual aids, apps etc.
- ✓ 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'.
- Major concepts of environment have a scientific base and they also deal with social aspects. Encourage group activities, learning through each other's help etc. Facilitate peer learning as much as possible by recognizing the class structure frequently.
- ✓ Do not ask questions on statistical information. Instead, ask questions on their trends or patterns.
- The present book has been prepared for constructivist and activity-based teaching-learning.
- Follow the order of the chapters as given because the concepts have been introduced in a graded manner to facilitate knowledge building.

- Use QR code given in the textbook. Some websites have been given for reference. A list of references used is provided. 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.
- ✓ The thought-provoking, activityoriented, open ended, multiple choicequestions, short and long questions are considered for evaluation. Some examples are given at the end of the chapters in the 'exercise'.

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	2.7 Ecological succession	
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	3.2. Levels of biodiversity	
	3.3. Values of biodiversity	28 to 45
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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.

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Front Page: The components of earth and positive actions for environment and sustainability.

Back Page : In day to day life what do's and don'ts regarding recyclable product.







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