

Class X - Social Science

Resources and Development

CBSE NOTES

Resources and Development - Challenge Worksheet

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Challenge Questions

1. Evaluate the statement 'Resources are free gifts of nature' in the context of sustainable development.

Hint: Consider the role of technology and human effort in transforming natural elements into resources.

Solution: This statement is a misconception because resources are not free gifts but are created through human intervention and technology. Sustainable development emphasizes the need for responsible use of resources to ensure their availability for future generations, highlighting the role of human activities in resource creation and conservation.

2. Analyze the impact of indiscriminate use of resources on global ecological crises.

Hint: Think about the consequences of over-exploitation and inequality in resource distribution.

Solution: Indiscriminate use of resources leads to depletion of resources, accumulation in few hands, and global ecological crises like global warming and ozone layer depletion. This calls for equitable distribution and sustainable management of resources to mitigate these effects.

3. Discuss the significance of the Rio de Janeiro Earth Summit, 1992, in promoting sustainable development.

Hint: Reflect on the outcomes of the Summit and their relevance to contemporary environmental challenges.

Solution: The Rio Summit was pivotal in addressing global environmental and socio-economic issues, leading to the adoption of Agenda 21. It emphasized global cooperation for sustainable development, marking a shift towards integrating environmental protection with development goals.

4. Examine the challenges of resource planning in India with reference to regional disparities.

Hint: Consider examples of states with abundant resources but lacking in development and vice versa.

Solution: India faces challenges in resource planning due to its diverse geography and unequal resource distribution. Regions rich in certain resources lack others, necessitating balanced planning to address disparities and ensure sustainable development across all regions.

5. Critically assess the role of technology and institutions in the development of resources.

Hint: Think about how colonial exploitation was facilitated by technological superiority.

Solution: Technology and institutions play a crucial role in transforming natural elements into resources. However, without equitable access and sustainable practices, technological advancement can lead to resource depletion and environmental degradation.

6. Explore the relationship between land use patterns and physical factors in India.

Hint: Consider how varying relief features affect land utilization.

Solution: Land use in India is influenced by physical factors like topography, climate, and soil types, as well as human factors. This relationship determines the agricultural productivity and ecological balance of different regions.

7. Debate the effectiveness of afforestation and proper grazing management in combating land degradation.

Hint: Reflect on the long-term benefits of these measures versus immediate economic gains.

Solution: Afforestation and controlled grazing are effective in preventing land degradation by stabilizing soil, enhancing water retention, and restoring ecological balance. However, their success depends on community participation and sustainable practices.

8. Compare and contrast alluvial and black soils in terms of their formation and agricultural suitability.

Hint: Consider the geographical distribution and crop preferences of these soils.

Solution: Alluvial soils, formed by river deposits, are fertile and ideal for crops like wheat and rice. Black soils, derived from lava flows, are rich in minerals and suitable for cotton. Both have distinct formation processes and agricultural advantages.

9. Investigate the causes and consequences of soil erosion in India, suggesting conservation measures.

Hint: Think about the impact of human activities and natural forces on soil health.

Solution: Soil erosion in India is caused by deforestation, overgrazing, and faulty agricultural practices, leading to loss of fertile land and biodiversity. Conservation measures include contour ploughing, terrace farming, and afforestation.

10. Propose a comprehensive plan for sustainable resource management in your locality, considering local needs and global environmental goals.

Hint: Consider integrating traditional knowledge with modern sustainability practices.

Solution: A sustainable plan would involve community-based resource management, promotion of renewable energy, waste recycling, and education on sustainable practices, aligning local actions with global environmental objectives like the SDGs.

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