

KENDRIYA VIDYALAYA-BEMAL NAGAR

English Worksheet : Class: X

Lesson: A Letter to God

In the story Lencho suffered due to drought. But he was optimistic. Have you ever been in great difficulty and felt that only a miracle could help you? Obviously now we have been going through such a situation throughout the world (Covid 19 Pandemic)

Suppose you are a reporter from a channel and prepare a questionnaire to interview your Chief Minister to enquire about the precautionary steps to wipe-out this pandemic.

(Watch the video from links given before each question type for help in solving these questions)

Solving problems using Euclid's Division Lemma

<https://youtu.be/qJ3fV0F-pk8>

1. Show that any positive odd integer is of the form $4q + 1$ or $4q + 3$, where q is some integer.

Finding HCF by Euclid's Division Algorithm

<https://youtu.be/ZikFMchOXI4>

2. Use Euclid's algorithm to find the HCF of 4052 and 12576.

3. Use Euclid's algorithm to find the 65 and 117.

HCF and LCM by Prime Factorization

https://youtu.be/d_C_KEkyrLk

4. LCM of two numbers is 2295 and HCF is 9. If one of the numbers is 153, find the other number.

5. Express 111972 as a product of its prime factors.

Proof of Irrationality

<https://youtu.be/1LBo8f5X5Rs>

6. Prove that $\sqrt{3}$ is irrational number

<https://youtu.be/iGeuBIPz0Jc>

7. Prove that $\sqrt{5+7}$ is irrational number

Some CCT questions based on knowledge of HCF and LCM

8. Two tankers contain 850 liters and 680 liters of petrol respectively. Find the maximum capacity of tanker which can measure the petrol of either tanker in exact number of times.

9. The traffic lights at three different roads – crossing change after every 36 seconds, 60 seconds and 72 seconds. If they change simultaneously at 8 a. m. after, what time will they change again simultaneously?

10. Find the least number that is divisible by all the numbers between 1 and 10 (both inclusive).

11. What is the smallest number that, when divided by 35, 56 and 91 leaves remainders of 7 in each case?

Class: XA,B & C

Subject: Social Science

First Chapter: Resources and Development (Geography)

Key concepts of the lesson:

1. **Resources:** Everything available in our environment which can be used to satisfy our needs, which are technologically ,accessible ,economically feasible and culturally acceptable.
2. **Classification of resources:** (a) On the basis of Origin: Biotic and Abiotic (b) On the basis of Exhaustibility : Renewable and non- renewable (c) On the basis of Ownership: Individual, Community, National and International. (d) On the basis of status of development: Potential, developed, Stock and reserve.
3. **Need for resource conservation :** For future generation, to ensure sustainable development, to maintain ecological balances.
4. **Methods of conservation:** Reduce the over use of resources, use of more renewable resources recycle of the resources it possible and create public awareness.
5. **Land resources :** Land utilization, land use pattern in India, land degradation and measures to solve land degradation.
6. **Reasons of Land degradation :** deforestation, overgrazing , mining and quarrying too have contributed significantly in land degradation .
7. **Measures to solve land degradation :** Afforestation, control overgrazing and mining, shelter belts, proper disposal of industrial wastes.
8. **Classification of soils :** Alluvial soils, Black soil, Red and Yellow soils, Laterite soil and Arid soils.
9. **Soil erosion :** The denudation of the soil cover and subsequent washing down is soil erosion.
10. **Methods to prevent soil erosion in hilly area:** Ploughing along the contour lines-contour ploughing , terrace cultivation, Strip farming and Shelter belts.

Worksheet – 1

I . One mark question :

1. “ There is enough for everybody’s need but not for anybody’s greed “. Who said this ?
2. Resources which are surveyed and their quantity and quality have been determined for utilization are known as ----- .
3. The first International earth Summit was held in ----- .
4. Old alluvial soil is called bangar . (True/ False)

II . Two mark question:

5. What is a resource ?
6. Classify resources on the basis of origin along with an example .
7. Which factors are responsible for land degradation?

III . Map Work:

On the map of India , mark and locate the different types of soil found in India. (Geography text page no. 9)

