



LESSON 16
ENVIRONMENT AND ITS PROTECTION
(A DIALOGUE)

SOLUTIONS:

COMPREHENSION

1. Answer the following questions in a sentence each:

i) On what a person's lifestyle, habit and occupation depend?

Ans: A person's lifestyle, habit and occupation depend on his environment.

ii) How have our hills and forests become bare?

Ans: To meet their need men have cut down so many trees that the hills and the forests have become bare.

iii) What happens to the rain water when there are no trees on the hill side?

Ans: The rain water falling on the hills will come down the hill side causing severe flood and mud slide. It will also carry away the top soil leaving the area dry and infertile.

iv) What is the probable reason of the mudslide that occurred at Kangpokpi and Mao?

Ans: The cutting down of trees is the probable reason of the mudslide that occurred at Kangpokpi and Mao.

v) How can you replace the trees that had been cut down?

Ans: We should plant more and more trees to replace the trees that had been cut down.

vi) Why do we not run out of the stock of oxygen?

Ans: The trees and the green plants absorb carbon dioxide from the atmosphere and release oxygen. So, we do not run out of the stock of oxygen.

vii) What is the main cause of air pollution?

Ans: Air pollution is mainly caused by the burning of coal, petrol, etc.

viii) What causes global warming?

Ans: Global warming is primarily caused by too much carbon dioxide in the atmosphere which acts as a blanket, trapping heat and warming the planet.

ix) What protects men from the ultra-violet rays in the sun light?

Ans: Ozone layer protects men from the ultra-violet rays in the sunlight.

x) What is the effect of the CFC gas on the ozone layer?

Ans: CFC gas depletes the earth's ozone layer.

xi) What mainly pollutes the rivers, the lakes and the seas?

Ans: The liquid wastes that are thrown out by factories and industrial plants pollutes the rivers, the lakes and the seas.

xii) What has polluted the Nambul?

Ans: The garbage and the plastic bags that are thrown into it have polluted the Nambul.

xiii) What happens to marine life when oil spills into the sea water?

Ans: Thousands of birds and aquatic animals will die when such a thing occurs.

2. Answer the following questions in about 20-25 words each:

i) What do you understand by environment?

Ans: Environment means our surroundings. Air, water, animals, trees, in fact, everything that surrounds us is the different components which constitute our environment.

ii) How is flood related to cutting down of trees?

Ans: To meet their need, men have cut down so many trees and because of this the hills and the forests have become bare. The hills without the trees cannot retain water in the soil. So, the rainwater falling on the hills comes down the hillside causing severe flood.

iii) How can you solve the problem that arises out of the cutting down of trees?

Ans: In order to solve the problem, we must put a check on the cutting down of trees. We may cut down trees that are absolutely necessary. We shall have to plant more and more trees so that the trees that have been cut down are replaced by the new ones.

iv) What is the threat caused by global warming?

Ans: Global warming is caused by increased concentration of greenhouse gases in the atmosphere. The world today is warmer than ever before. If this continues then all the ice in the North and South Poles will melt and the water level in the oceans will rise and much of the dry land of the earth will be submerged.

v) How is ozone layer important to us?

Ans: The ozone layer is important to life on the earth because it is a kind of shield that blocks the ultra violet rays present in the rays of the sun.

vi) How are the liquid waste from the industrial plants harmful?

Ans: The liquid wastes from the industrial plants that are thrown out into the rivers, lakes and seas contain highly toxic chemicals like compounds of mercury and lead. When men use the water from these sources of water, they too get poisoned.

vii) What is the condition of the Nambul today?

Ans: The garbage and the plastic bags that are thrown into the Nambul river have made it one of the most polluted rivers in Manipur. The river is choked with these materials at certain places.

viii) How are insecticides and pesticides dangerous?

Ans: Insecticides and pesticides that we use for agriculture in the fields are dangerous pollutants. These chemicals get into the bodies of fishes and vegetables, which are eaten, by men, animals and birds and they become ill.

ix) What should be the general attitude of mankind towards environment?

Ans: It is the duty of mankind as a whole to see to it that in his desire for comfort he does not do anything which will seriously affect the environment. There are many little things that each one of us can do in our effort to improve our environment. Some of them are planting more trees at the appropriate places, not throwing garbage anywhere, not using motor vehicles all the time unnecessarily, not spitting anywhere carelessly, saying 'No' to polybags and making everyone environment-conscious.

3. Answer the following questions in about 50-60 words each:

i) How are man and his environment related?

Ans: There is a close relationship between men and their environment. A man's life-style, habit, occupation depend on his environment. The lifestyle of a man who lives in the desert is influenced by his environment. So is the lifestyle of a man who lives in the coastal area. When there is a serious change in one of the components of their environment, the life of men is affected.

ii) What have men done to their environment before they realized the relation between the two?

Ans: Men had no idea about the relationship between man and his environment. So, they did things that severely harmed the environment. One such human activity is the cutting down of trees. To meet their need men have cut down so many trees that the hills and the forest have become bare. The hills without the trees cannot retain water in the soil. It causes severe flood and mudslides. The rain water carries away the top soil also leaving the area dry and infertile.

iii) Explain why fewer trees mean less oxygen.

Ans: We need oxygen for our respiration. Oxygen is also essential for burning. It means we are constantly consuming oxygen. The trees and the green plants absorb carbon dioxide from the atmosphere and release oxygen. As a result, we do not run out of stock of oxygen. So, fewer trees mean less oxygen which is a very dangerous thing to all living creatures.

iv) Explain the importance of the slogan 'Plant more trees'?

Ans: Trees are of vital importance to our existence. The trees and the green plants absorb carbon dioxide and other harmful gases from the atmosphere and release oxygen. As a result, we do not run out of stock of oxygen. We need oxygen for our respiration. Oxygen is also essential for burning. It means we are constantly consuming oxygen. So, fewer trees mean less oxygen, which is a very dangerous thing to all living creatures. It is therefore important to plant more and more trees.

v) Describe various forms of air pollution. How do they affect life on the earth?

Ans: Air pollution is mainly caused by the burning of coal, petrol etc. Motorcars and other vehicles emit a poisonous gas called carbon-monoxide through their exhaust pipes. This gas goes into the atmosphere and pollutes the air. The smoke that comes out of the factories and industrial plants also do the same thing. The smoke released by jet planes also pollute the upper atmosphere. As a result of this air pollution man suffers from diseases like allergy, cold, cough, heart diseases and many types of cancer.

vi) How is acid rain caused? What are its effects?

Ans: Factories, motor vehicles and power houses produce polluting gases such nitrogen oxides and Sulphur dioxides. These gases react with the tiny droplets of water in the atmosphere to form sulphuric acid and nitric acid which are then returned to the earth as acid rain.

Acid rain causes a lot of harm to men, to the fishes in the water, to the trees in the hills and the forests and even to our houses.

vii) Explain ozone depletion and its effect on life on the earth.

Ans: Ozone is a gas that surrounds the earth in the heights between 25-40 kms. above the earth. The ozone layer is important to life on the earth because it is a kind of shield that blocks the ultra-violet rays present in the rays of the sun. Refrigerators, air conditioners and aerosol sprays are very common things today. They use a kind of gas called chlorofluoro carbon; CFC in short. This gas escapes in the atmosphere and finally reaches the ozone layer and then depletes the ozone. When that happens frequently, holes develop in the ozone layer and through these holes unfiltered sunlight reach the earth.

viii) What are the causes of water pollution?

Ans: Water pollution is caused by several human activities. One such activity is the liquid wastes that are thrown out by factories and industrial plants into rivers, lakes and seas. These liquid wastes contain highly toxic chemicals like compounds of mercury and lead. When men use the water from these rivers or lakes or eat the fishes from these sources of water, they too get poisoned. Water is also polluted by the garbage that is thrown into them by men. Fertilizers, pesticides and insecticides that we use for agriculture in the fields are also dangerous pollutants. Oil spills also pollute the sea water and affect marine life.

ix) Name some activities that you can do to improve your environment.

Ans: There are many little things that each one of us can do in our effort to improve our immediate environment. Some of them are planting more trees at the appropriate places, not throwing garbage anywhere carelessly, not using motor vehicles all the time unnecessarily, not spitting anywhere carelessly, saying 'No' to polybags and making everyone environment conscious.

4. Match the words in column A with those in B and form complete sentences:

A	B
i) The lifestyle of a man who lives in the desert is ii) An area becomes dry and infertile iii) Mud-slides are a frequent iv) The stock of oxygen is v) If the ice in the Poles melt vi) The death of marine life due to vii) It should be the duty of every human being	occurrence in many parts of the world. (iii) to take care of his environment. (vii) resupplied by the trees. (iv) we will have no dry land to live on. (v) water pollution is a sorry sight. (vi) different from that of a man who lives in the coastal area. (i) when the top-soil has been washed away. (ii)

5. Write which of the following activities are environment friendly and which are not. Write them in the columns provided:

Cleaning of forests

To walk short distances instead of driving

To carry clothe-bags instead of poly bags while marketing

To use insecticides in large amount on our vegetables

To use the dustbins and garbage bins

To spit anywhere and everywhere

Planting of vegetables and flowers

Throwing garbage in the river

ENVIRONMENT FRIENDLY ACTIVITIES:

Cleaning of forests
To walk short distances instead of driving
To carry cloth-bags instead of poly bags while marketing
To use the dustbins and garbage bins
Planting of vegetables and flowers

ANTI-ENVIRONMENT FRIENDLY ACTIVITIES:

To use insecticides in large amount on our vegetables
To spit anywhere and everywhere
Throwing garbage in the river

VOCABULARY:

6. Make compound words by combining suitable words in box A with those in box B and write them in the space provided:

A

bricknews radio over post
mid drawing fare drinking

B

paper well water coat man
bat station room night

Newspaper

drawing-room

Radio station

fare well

Over coat

drinking water

Post man

brickbat

Mid-night

7. Fill in the missing words in the table given below. The first one has been done for you:

adjective

adverb

wise

wisely

polite

politely

positive

positively

singular

singularly

cunning

cunningly

merry

merrily

GRAMMAR

8. Certain words modify or add some new meaning to a verb, an adjective or an adverb.

Such words are called Adverbs.

A) Look at the following:

- i. I came here yesterday.
- ii. People now close the gates early.

The words, yesterday, early add some meaning about time:

B) Look at the following sentences:

- i. Come here.
- ii. Go there.

These indicate place.

- i. I read my lesson twice.
- ii. My father always taught me my lessons.



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These words express Number/Frequency.

C) i. You must speak clearly.

ii. She dances nicely.

The words express manners or quality

D) i. She stood first in the examination.

ii. He came next.

These words indicate order.

E) He won the race and therefore won the prize.

The words, 'therefore' indicates reason

There are different types of Adverb.

Adverbs are also used in asking questions:

Look at the following

i) How did he pass the examination?

ii) Where is your house?

These are called Interrogative Adverbs.

9. Adverbs are also formed by adding "ly" to an adjective.

e.g. heavy – heavily

slow – slowly etc.

Now, form adverbs from the adjectives given below:

merry	usual	entire	gentle	regular
immediate	angry	greedy	entire	

Merrily, usually, entirely gently, regularly, immediately, angrily, greedily, entirely

10. Look at the following two sentences:

1. They went to no other place.

2. They went no where else.

The two sentences are two different ways of saying the same thing.

Now re-write each of these sentences using the suitable phrases from the box in place of the words in italics:

Somewhere else, anything else, anybody else, nowhere else, who else, nobody else, somebody else, what else, where else

i) Do you have *any other thing* to say?

Do you have anything else to say?

ii) Lasifa remembered *some other thing*.

Lasifa remembered something else.

iii) *What other place* can she go to?

Where else can she go to?

iv) There is *no other person* in the room.

There is nobody else in the room.

v) Could you see *any other person*?

Could you see anybody else?

vi) I'll ask *some other person* to help me.

I'll ask somebody else to help me.

vii) They went to *no other place*.

They went nowhere else.

viii) *What other person* is coming with Rita?

Who else is coming with Rita?

ix) *What other thing* should we do?

What else should we do?