# Grade VIII - Geography Lesson 2.Land, Soil, Water, Natural Vegetation and Wildlife Resources (1 Mark each) **Objective Type Questions** I. Multiple choice questions 1. Which one of the following is not a factor of soil formation? [NCERT] (a) Time (b) Soil texture (c) Organic matter (d) None of these 2. Which one of the following methods is most appropriate to check soil erosion on steep slopes? [NCERT] (a) Shelter belts (b) Mulching (c) Terrace cultivation (d) None of these 3. Which one of the following is not in favour of the conservation of nature? [NCERT]

(a) Switch off the bulb when not in use. (b) Close the tap immediately after using.

(c) dispose polypacks after shopping. (d) None of these

4. The thin layer of grainy substance covering the surface of the earth is called

(a) water (b) oxygen (c) air (d) soil 5. It determines the thickness of soil profile. (a) parent rock (c) relief (d) climate (b) time 6. It is defined as the mass movement of rock. (a) landslide (c) earthquake (b) volcano (d) flood 7. How many centimetres of soil forms in hundreds of years? (a) 1 (b) 3 (d) 4 (c) 2 8. This thing is piled up to slow down the flow of water.

(a) Mulching(b) Rock(c) River(d) Sandstone9. is a vital renewable natural resource.<br/>(a) Water(b) Soil(c) Air(d) Forest10. How many litres of water is wasted by dripping tap in a year?<br/>(a) 1000(b) 1200(c) 1100(d) 1300

11. \_\_\_\_\_ water is the most precious substance on earth. (a) Saline (b) Colour (c) Fresh (d) Plain



10.14									
-			are		·				
(a	) Human r	esource	S		(b) Valua	ble resour	rces		
(c	) Man-ma	de resou	rces		(d) I nval	uable reso	urces		
13. Whic	h birds in	I ndian s	ub-continer	nt were dy	ying of kidr	ney failure	?		
(a	(a) Eagle (b) Peacock			(c) Vultu	re	(d) Spa	rrow		
14. The c	only planet	in our s	olar system	where lit	fe exits is				
(a	) Mercury		(b) Earth		(c) Venus		(d) Mar	S	
15. This	forest tre	es shed	their leave	s in a part	ticular seas	son is calle	ed 2		
(a	) Evergre	en	(b) Grassl	ands	(c) Decid	luous	(d) Tho	rny	
16. The t	ropical gr	asslands	called Sava	annah are	found in				
(a	) North A	merica	(b) East A	frica	(c) South	n America	(d) Wes	st Africa	
17. Sahai	ra, Arabia	, Gobi ar	e						
(a) deserts (b) plateaus				(c) plains		(d) mou	ntains		
18	18 are the home to animals and plants.								
	(a) Caves (b) Trees (c) Forests (d) Mountains								
19. I t is	the variet	y of flor	a and fauna	in an are	ea				
	) Diversit		(b) Biodive		(c) Fores	st	(d) Ecos	system	
1. b	2. c	3. c	4. d	5.b	6. a	7. a	8. b	9. a	10. k
11. c	12. a	13. c	14. b	15. c	16. b	17. a	18. c	19. b	
		ſ							
		l		wuitipie	choice qu	estions			
1. Which	of these	resource	es covers ab	out three	e-fourths o	o <mark>f th</mark> e tota	al surface	of earth?	)
a. land b. soil				c. air		d. wate	r		
2. What	are low-ly	ing areas	s very susce	eptible to	?				
a. earthquakes b. landslides c. flooding d. tsunamis									
3. Which	of these	physical	features a	re best si	uited for li	ving?			
a.	plains and	l river va	alleys		b. mount	ains	~ ^		2
C.	deserts	on	. So	non	d. lakes a	and rivers	5)ch		

4. Which of these is example of community land?

a. the Sunderban forests b. a bungalow

c. the Parliament House d. none of these



5. What is the majority of land in Indian used for?

a. cultivation	b. pasture	С	. forests		d. none of the	ese		
6. Which of these countries is mainly covered with forest land?								
a. India	b. Brazil	c	. USA		d. both b and	С		
7. Due to what feature	s ocean water u	nfit for hu	man cons	umption?				
a. poisonous		b	. salinity					
c. water tempera	ture	d	. none of	these				
1. d 2. c	З. а	4. a		5. a	6. d	7. b		
	III. Mu	ultiple choi	ce quest	ions				
PRELUDE								
1. In which of the follow	ing continents is	s Tanzania	situated	?				
a. Europe	b. Asia	с	. Africa		d. South Ame	rica		
Land								
2. Which of the followin	g is the most im	portant na	ture reso	ource?				
a. Land	b. Water	с	. Air		d. All of thes	e		
3. The uneven distributi	on of population	in the wor	ld is due	to the var	ied characteri	stics of		
a. land and climat	e b. climate	с	. vegetat	ion	d. settlement	S		
4. The example of comm	4. The example of common property resource is							
a. community land b. individual building c. both (a) and (b) d. none of these								
5 is the use of land for different purposes like agriculture, forestry, mining								
construction of building	ngs, houses, indu	istries and	road.					
a. Land degradat	ion b. Land u <mark>se</mark>	с	. Land fi <mark>l</mark>	ling	d. Land diggir	ıg		
6. Which of the following determine the use of land?								
a. Soil and topography b. Climate and vegetation								
c. Availability of water d. All of these								
7. Australia uses its largest portion of its area for								
a. pastures b. crop land c. forest d. other uses								
Soil								
8. The lowermost layer								
a. Weathered roo	ck b. Parent ro	ock c	. Sub soil		d. None of th	ese		



9. Which of the following is used of soil conservation?

a. Mulching b. Shelter belts c. Contour ploughing d. All of these

#### Water

- 10. Which is not example of ground water?
  - a. Water flowing in rivers
  - c. Water through hand pumps
- b. Water through wells
- d. Water through submersible pumps

#### Natural Vegetation and Wildlife

- 11. Which of the following is a famous bird sanctuary?
  - a. Kaziranga National Park
- b. Tiger Park at Dudhwa
- d. Bharatpur Sanctuary
- 12. Why is it necessary to increase the area under forests?
  - a. To maintain ecological balance
  - b. Forest absorb carbon dioxide from the atmosphere
  - c. Forest help in raising the level of precipitation
  - d. All of these

c. Gir forest

13. Large scale destruction of forest cover and arable land has occurred due to the following.

a. Growing population

b. Ever growing demand of the population

c. Both (a) and (b)

d. None of these

1. c	2. d	3. а	4. a	5. b	6. d	7. a
8. b	9. d	10. a	11. d	12. d	13. a	

#### IV. Multiple choice questions

1. Which one of the following is NOT a factor of soil formation?

- a. Time b. Soil te<mark>xt</mark>ure c. Organic matter d. Mulching
- 2. Which is the most appropriate method to check soil erosion on steep slopes?
  - a. Shelter belts b. Mulching
  - c. Terrace cultivation d. Contour barriers

3. Which one of the following is NOT in favour of the conservation of nature?

- a. Switch off the bulb when not in use
- b. Close the tap immediately after using
- c. Dispose playpacks after shopping
- d. Constructing Rock Dams



4. Which one of the following determines the land use pattern?									
a. Clima	te	ł	o. Topogra	iphy		c. Minera	als	d. All of	f these
5. Kaziranga N	ational Pa	ark is	situated	in					
a. West	Bengal	ł	o. Manipur			c. Assam		d. Odisl	ha
6. Dudhwa Tig	er Park is	situa	ated in						
a. West	Bengal	I	o. Uttar Pi	radesł		c. Assam		d. Odisl	ha
7. Bharatpur S	anctuary	is a	Famous						
a. Bird	Santuary	ł	o. Tiger Pa	ark		c. Natior	al Park	d. Zoo	
8. Fallow land	s a								
a. Grou	o of plant	s in a	reas havir	ng sim	ilar	climatic c	ondition		
b. Land	b. Land covered with grass shrubs on which animals graze freely								
c. Marginal lands kept fallow for a certain period to restore their fertility									
d. Brea	d. Breaking up and decaying of exposed rocks due to various factors.								
9. Biome mean	9. Biome means:								
a. Group of plants in areas having similar climatic condition									
b. Land covered with grass shrubs on which animals graze freely									
c. Marginal lands kept fallow for a certain period to restore their fertility									
d. Breaking up and decaying of expo <mark>sed rocks</mark> due to various factors									
10. Which one of the following explains the term Weathering?									
a. Marginal land kept fallow for a ce <mark>rtain peri</mark> od to restore their fertility									
b. Breaking up and decaying of exposed rocks due to various factors									
c. Groups of plant in areas having similar climatic condition									
1. b 2.	с 3.	С	4. d	5.	С	6. b	7. a	8. c	9. a

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10. b



#### I. Match the Columns

Column A	Column B
1. Land use	a. Prevent soil erosion
2. Humus	b. Land suitable for agriculture
3. Rock dams	c. Productive use of land
4. Arable land	d. Organic matter deposited on top soil
5. Mountains	f. Desert
6. Thorny bushes	g. Relief feature
7. Yak	h. Wildlife Protection Act
8. 1972	i. Ladakh

1. c 2. d 3. a 4. b 5. g 6. f 7. i 8. h								
	1. c	2. d	3. а	4. b	5. g	6. f	7. i	8. h

### II. Match the Columns

Column I	Column I I		
i. Terrace farming	a. Protection from soil wash		
ii. Intercropping	b. Checking wing movement		
iii. Contour	c. Reducing surface run-off		
iv. Shelter belts	d. Retaining soil moisture		
v. Mulching	e. Prevention of water to flow down the slope		

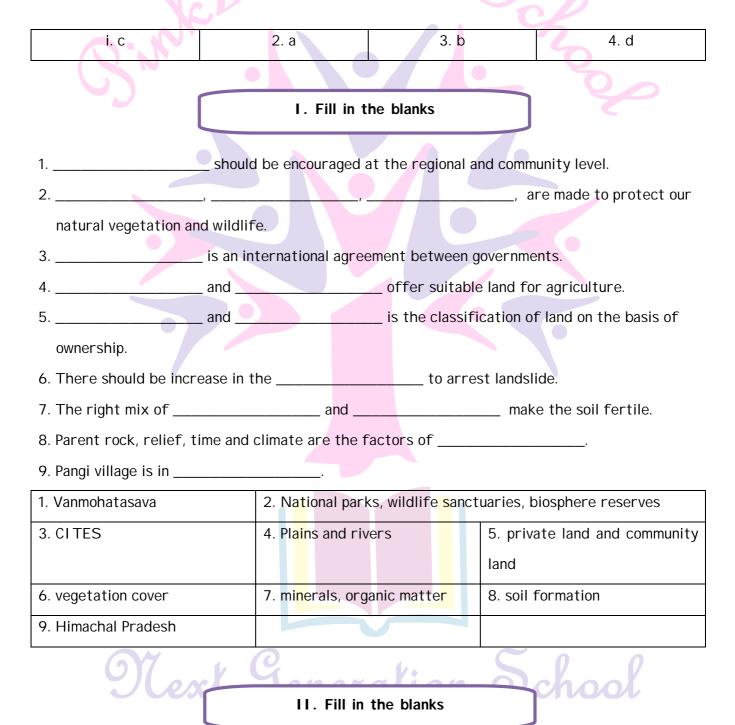
i. c	ii. a	iii. e	iv. b	v. d

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#### III. Match the Columns

i. Fallow land	a. Groups of plant communities in areas having similar climate conditions
ii. Biomes	b. Breaking up and decay of exposed rocks due to various factor
iii. Weathering	c. Marginal land kept fallow for a certain period to restore their fertility
iv. Pastures	d. Land covered with grass shrubs on which animals are grazed freely



1. The process responsible for soil formation is called \_\_\_\_\_\_.

2. Soil becomes fertile due to the right mix of \_\_\_\_\_\_ and \_\_\_\_\_.



- 3. The colour, texture, etc. of soil is determined by \_\_\_\_\_.
- 4. Climate factors influencing rate of weathering include \_\_\_\_\_\_ and

5. 70% of fresh water exists as \_\_\_\_\_ ii. minerals, organic matter iii. parent rock i. weathering iv. rainfall; temperature v. ice sheets **III**. Fill in the blanks 1. Nearly 97% of the earth's total water is in the form of \_ 2. Tiger Park at Dudhwa is situated in the state \_\_\_\_\_ 3. \_\_\_\_\_\_ is produced with the help of running and falling water. populated areas. 4. Polar areas are \_\_\_\_\_the supply of drinking water by installing desalination plants. 5. We can \_\_\_\_\_ 6. In \_\_\_\_\_ areas landslides have been a major and widely spread natural disaster. 2. Uttar Pradesh 3. Hydro-electricity 1. Sea, oceans 4. sparsely 5. increase 6. mountians IV. Fill in the blanks 1. An irrigation method which is useful in dry region is \_\_\_\_\_\_. 2. \_\_\_\_\_\_ refers to the destruction of soil by wind and water. 3. Water is a vital \_\_\_\_\_\_ natural resource. 4. The right mix of \_\_\_\_\_\_ and \_\_\_\_\_ makes the soil fertile. 5. Most of the industrial effluents are \_\_\_\_\_and reach human body through water. 6. \_\_\_\_\_ is considered as an essential cleanser of the environment. 7. The growth of vegetation depends on \_\_\_\_\_ and 8. Soil is made up of \_\_\_\_\_, \_\_\_, and 2. Soil erosion 1. Drip irrigation 4. Humus and water 3. Renewable



5. Harmful	6. Vulture
7. Temperature and moisture	8. Soil fragments, humus and water

#### I. True or False

- 1. Ganga-Brahmaputra plain of India is an overpopulated region.
- 2. Water availability per person in India is declining.
- 3. Rows of trees planted in the coastal areas to check the wind movement is called intercropping.
- 4. Human interference and changes of climate can maintain the ecosytem.
- 5. Black buck also needs protection.
- 6. Killing of lions, tigers, deers in India is legal.
- 7. Human activities disturb the natural habitat of many species.
- 8. Thorny shrubs grow in wet areas.
- 9. Brahma Kamal is not a medicinal herb.
- 10. The Earth is called 'water planet'.
- 11. Plants and trees constitute natural wildlife.
- 12. Flora refers to plants.
- 13. Wildlife does not include the aquatic life forms.
- 14. Growth of vegetation depends upon temperature and moisture.
- 15. The majority of land in India is used for pasture.

1. True	2. True	3. False	4. True	5. True	6. False	7. True	8. False
9. False	10. True	11. False	12. True	13. False	14. True	15. False	

#### II. True or False

- 1. Land has similar features all over the surface of the earth.
- 2. Plains and valleys are densely populated because of soil fertility.
- 3. Population and technology are important factors that determine land use pattern.
- 4. The earth is called the water planet because of the large amount of water available over it.
- 5. Forest and other vegetation promote surface run-off.

1. False	2. True	3. True	4. True	5. False
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- 1. The quality of land differ from place to place.
- 2. Natural resources are essential for economic development of a country.
- 3. The grassland of Asia and Africa are overpopulated region.
- 4. Water is found only in liquid form on earth.

1. True	2. True	3. False	4. False

Very Short Answer Type Questions

#### 1. Which are the two main climatic factors responsible for soil formation? [NCERT]

Temperature and rainfall are the two main climatic factors responsible for soil formation.

#### 2. Write any two reasons for land degradation today. [NCERT]

The two reasons for land degradation are

(i) Overgrazing (ii) Deforestation.

# 3. Why is land considered as an important resource? [NCERT]

Land is an important resource because it is used for different purposes like agriculture, forestry, mining, building, houses, etc.

#### 4. What is land?

Land is among the most important natural resources. Land covers about 29% of the total area of the earth's surface. It is made up of soil and rock.

#### 5. What do you mean by land use?

Land use refers to the use of land for different purposes such as agriculture, forestry,

mining, building houses, etc.

# 6. Define private land.

Private land refers to the part of land owned by an individual or group of individuals like land used for personal purposes only (house).

# 7. What do you mean by community land?

Community land is owned by the community for common uses like collection of fodder, medicinal herbs. These community lands are also called common property resources.



#### 8. What is the difference between deforestation and afforestation?

Deforestation refers to the action of cutting down trees, whereas afforestation refers to the action of planting trees.

# 9. What do you mean by conservation of land resources?

Conservation of land resources refers to the use of land properly and carefully, so that we can save our land resources for future generations.

#### 10. Define landslides.

Landslides refer to the mass movement of rock, debris or earth down a slope. They often take place in conjunction with earthquakes, floods and volcanoes.

#### 11. Write the definition of soil.

Soil is the thin layer of grainy substance covering the surface of the earth. It is made up of organic matter, minerals and weathered rocks found on the earth.

#### 12. What is weathering?

The breaking up and decay of exposed rocks by temperature changes, frost action, plants, animals and human activity is called weathering.

#### 13. Explain the term soil erosion.

Soil erosion refers to the removal of top soil by running waters, winds and glacier or human action.

#### 14. What do you mean by degradation of soil?

Removal of top soil is called soil degradation. Both human and natural factors can lead to degradation of soils. Ex: Landslides, soil erosion.

#### 15. What is the importance of water resources?

Water is a vital renewable natural resource. Humans use large amounts of water not only for drinking and washing but also in processes of production like agriculture, industries, generating electricity, etc.

#### 16. Explain natural vegetation.

Natural Vegetation refers to the group of plants which grow in an area without the interference of human beings.

# 17. What is wildlife?

Wildlife includes animals, birds, insects, aquatic life forms which live in their natural habitat.



#### 18. Describe the various types of natural vegetation.

The various types of natural vegetation are as follows:

- (i) Forest
- (ii) Grasslands
- (iii) Shrubs and Tundra

#### 19. What is ecosystem?

In the biosphere living beings are inter-related and interdependent on each other for survival. This life supporting system is known as the ecosystem.

#### 20. What do you understand by 'rainwater harvesting'?

It is the process of collecting rainwater from roof tops and directing it to an appropriate location where it is stored for future use.

#### 21. What is 'biosphere'?

Natural vegetation and wildlife exists only in the narrow zone of contact between lithosphere, hydrosphere and atmosphere that is called 'biosphere'.

#### 22. Which regions in the world face water scarcity?

Most of Africa, West Asia, South Asia, parts of Western USA, North-west Mexico,

parts of South America and entire Australia are facing shortage in fresh water supply.

#### 23. What is a 'National Park' ?

A natural area designated to protect both flora and fauna for the present and future generation is called a National Park.

#### 24. What does 'biosphere reserve' mean?

Series of protected areas linked through a global network, intended to demonstrate the relationship between conservation and development is called biosphere reserve.

Short Answer Type Questions

# 1. Name any two steps that the government has taken to conserve plants and animals.

The steps taken by the government to conserve plants and animals are:

- (i) Establishment of natural parks, wildlife sanctuaries, biosphere reserves.
- (ii) Ban on killing animals and birds and cutting of trees.

[NCERT]



#### 2. Suggest three ways to conserve water.

#### Three ways to conserve water are:

(i) Efficient use of water.

(ii) Rainwater harvesting.

(iii) Canals for irrigation should be checked for water losses through seepage and promoting sprinkler irrigation to check evaporation and seepage.

# 3. Name the factors affecting land use.

The factors affecting land use are:

- (i) Physical feature
- (iii) Private and community land
- (v) Time
- (vii) Flora, fauna and micro-organism.

# 4. What are the major threats to the environment?

The major threats to the environment are:

- (i) Land degradation
- (iii) Soil erosion
- (v) Overgrazing
- (vii) Construction activities

# 5. What are the common methods used to conserve land resources?

The common methods used to conserve land resources are:

- (i) Afforestation (ii) Land reclamation
- (iii) Regulated use of chemical pesticides and fertilisers
- (iv) Checks on overgrazing

# 6. Explain the mitigation techniques of landslides.

The mitigation techniques of landslides are:

- (i) Hazard mapping to locate areas prone to landslides.
- (ii) Construction of retention walls to stop land from slipping.
- (iii) Increase in the vegetation covers to arrest landslide.

# 7. Explain the soil profile.

Soil is made up of four layers which are:

- (i) Top soil: It contains humus and vegetation.
- (ii) Sub soil: It is the second layer and consists of sand, silt and clay.

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- (ii) Landslides
- (iv) Desertification

(ii) Types of rocks

(iv) Climate

(vi) Parent rock

- (vi) Change in landforms
- (viii) Expansion of agriculture



(iii) Fragmented rock material: It is the third layer and is made up of weathered rock material.

(iv) Parent rock: It is the solid unweathered rock.

# 8. Write the factors of soil formation.

The major factors of soil formation are:

- (i) Nature of the Parent rock
- (ii) Relief
- (iii) Flora, fauna and micro-organism (iv) Climate
- (v) Time

# 9. Mention the factors which lead to soil degradation?

The factors which lead to soil degradation are as follows:

- (i) Deforestation (ii) Overgrazing
- (iii) Overuse of chemical pesticides and fertilisers
- (iv) Rain wash
- (vi) Floods

# 10. Name some methods of soil conservation.

The methods of soil conservation are:

- (i) Mulching
- (iii) Rock clam
- (v) Inter cropping
- (vii) Shelter belts.
- 11. Explain 'Water Cycle'.

(i) Contour barriers

(v) Landslides

- (iv) Terrace farming
- (vi) Contour ploughing

Water cycle includes three atmospheric processes which are evaporation condensation and precipitation of water from earth's surface. It is in constant motion, cycling through the oceans, the air, the land and back again, through the processes of evaporation, precipitation and run-off.

# 12. How can we conserve water?

- By the following ways we can conserve water:
- (i) Efficient use of water.
- (ii) Rain water harvesting.

(iii) Forest and other vegetation cover slow the surface runoff and replenish underground water.

(iv) Sprinklers irrigation by checking water losses through seepage and evaporation.



(v) Canals used for irrigating fields should be lined to minimise losses by water seepage.

### 13. Classify land on the basis of ownership.

(i) Land can be classified on the basis of ownership as

(a) Private land

(b) Community land

(ii) Private land is owned by individuals whereas community land is owned by the community for common uses like collection of fodder, fruits, nuts or medicinal herbs.

(iii) These community lands are also called 'Common Property Resources',

#### Long Answer Type Questions

#### 1. How we can conserve natural vegetation and wildlife?

We can conserve natural vegetation and wildlife by the following ways:

(i) Natural parks, and wildlife, national parks, wildlife sanctuaries and biosphere reserves are made to protect our natural flora and fauna.

(ii) Conservation of creeks, lakes and wetlands is also necessary to save the precious resource from depletion.

(iii) Encouragement of awareness programmes like social forestry and Vanmahotasava.

(iv) School children should be encouraged to bird watch and visit natural camps to appreciate the habitat of varied species.

#### 2. Briefly describe CITES?

CITES means the Convention on International Trade in Endangered Species of wild Fauna and Flora. It is an international agreement between governments that lists that, there are several species of animals and birds in which trade is prohibited. It aims to ensure that international trade in specimens of wild animals and plants does not threaten their survival. Roughly 5,000 species of animal and 28,000 species of plants are protected. Examples: Bears, Dolphins, Cacti, Corals, Orchids and Aloes.

### 3. Write a note on distribution of natural vegetation.

The distribution of natural vegetation has been classified into three types:

- (i) Forests
- (ii) Grasslands
- (iii) Scrubs and Tundra



(i) Forests: Forests are associated with areas having abundant water supply. Forests consists of two divisions which are evergreen and deciduous.

(a) Evergreen forests do not shed their leaves simultaneously in any season of the year.

(b) Deciduous forests shed their leaves in a particular season to conserve loss of moisture through transpiration.

(ii) Grasslands: It refers to the short stunted trees and grasses that grow in the regions of moderate rainfall.

(iii) Scrubs and Tundra: Scrubs and thorny shrubs grow in dry areas of low rainfall. In these areas plants have deep roots and leaves with thorny and waxy surface that reduce loss of moisture through transpiration. They are found in dry deserts. Tundra vegetation: They are mainly found in cold polar regions and comprise of mosses and lichens. These areas are covered with snow throughout the year.

#### 4. Elaborate the methods of soil conservation.

Some methods of soil conservation are:

(i) Mulching: The bare ground between plants is covered with a layer of organic matter like straw. It helps to retain soil moisture.

(ii) Rock Dams: Rocks are piled up to slow down the flow of water. This prevents gullies and further soil loss.

(iii) Intercropping: Different crops are grown in alternate rows and are sown at different times to protect the soil from rain wash.

(iv) Shelter belts: Rows of trees are planted to check the wind movements to protect soil cover.

(v) Contour barriers: Stones, grass, soil are used to build barriers along contours. Trenches are made in front of them to collect water.

(vi) Terrace farming: Broad flat steps or terraces are made on the steep slopes so that flat surfaces are available to grow crop. It reduces the surface runoff and soil erosion.

(vii) Contour ploughing: Ploughing parallel to the contours of a hill slope to form a natural barrier for water to flow down the slope.

5. How conservation of water resources can be done?

(i) Forest and other vegetation uses slow the surface run off and replenish underground water

(ii) Water harvesting is another method to save surface runoff.



(iii) The canals used for irrigating field should be properly lined to minimise losses through seepage and evaporation.

(iv) In dry regions with high rates of evaporation, drip or trickle irrigation is very useful.

