

NTSE

NCERT Solutions for Class 9 Science
BIOLOGY – Natural Resources



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NCERT Annexure

Below you can go through the subjective type questions and answers from NCERT Annexure.

1. Aniket is puzzled that how does the percentage of gases like oxygen, nitrogen and carbon dioxide remain almost same in the atmosphere. Help him by giving suitable explanation.

Ans. It is due to the reason that the composition of gases such as O_2 , N_2 and CO_2 remains same in atmosphere by biogeochemical cycles. Some examples are-

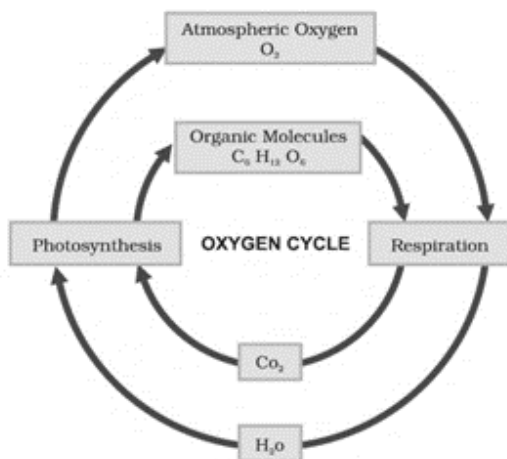
(1) During respiration, plants and animals release CO_2 and take in O_2 & during photosynthesis, plants take CO_2 and release O_2 .

(2) Plants intake N_2 gas in organic form, to prepare proteins which are released back by excretion of nitrogenous waste by animals and also after death and decomposition.

(3) Hydrogen mainly exists in nature as water and different organic compounds.

2. Explain oxygen cycle?

Ans.



Oxygen is one of the constituents of water and form about 21% of the atmosphere. Oxygen from atmosphere is used up in 3 processes – combustion, respiration and in the formation of oxides of. Oxygen is returned to atmosphere by photosynthesis.

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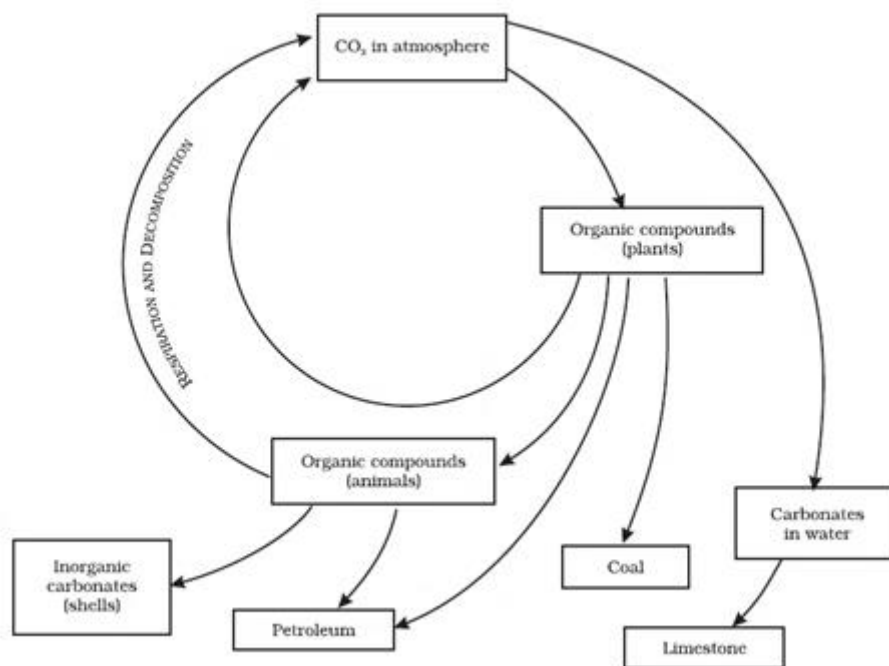
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3. Explain carbon cycle?



Carbon is formed in various forms as:

- (i) Elemental form as diamond and graphite
- (ii) in air
- (iii) Carbonates in minerals
- (iv) In living organisms, as proteins, carbohydrates, fats, nucleic acids, vitamins and in skeleton
- (v) Carbon is incorporated into life forms through photosynthesis. The glucose so formed, may provide energy through respiration and release in atmosphere.
- (vi) Combustion of fuels also adds in air.

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STORY**

I still wonder how one man has such a deep understanding of an examination. It becomes the truth what ever Vipin Sir says about NTSE.

M. Pareek

An
NTSE Scholar
IIT-JEE (Adv.) AIR-3

Mukesh Pareek



NCERT EXEMPLAR

Here are the Objective Type questions and solutions from NCERT Exemplar.

1. **The atmosphere of the earth is heated by radiations which are mainly**
(A) Radiated by the sun (B) Re-radiated by land
(C) Re-radiated by water (D) Re-radiated by land and water
Ans. (D)
2. **If there were no atmosphere around the earth, the temperature of the earth will**
(A) Increase
(B) Go on decreasing
(C) Increase during day and decrease during night
(D) Be unaffected
Ans. (C)
3. **What would happen, if all the oxygen present in the environment is converted to ozone?**
(A) We will be protected more
(B) It will become poisonous and kill living forms
(C) Ozone is not stable, hence it will be toxic
(D) It will help harmful sun radiations to reach earth and damage many life forms.
Ans. (B)
4. **One of the following factors does not lead to soil formation in nature**
(A) The sun (B) Water (C) Wind (D) Polythene bags
Ans. (D)
5. **The two forms of oxygen found in the atmosphere are**
(A) Water and ozone (B) Water and oxygen
(C) Ozone and oxygen (D) Water and carbon-dioxide
Ans. (C)

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