

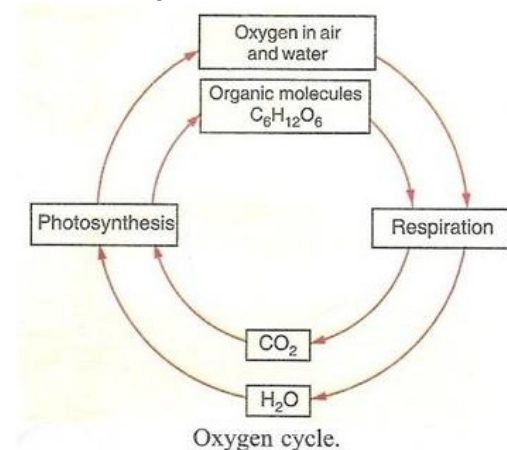


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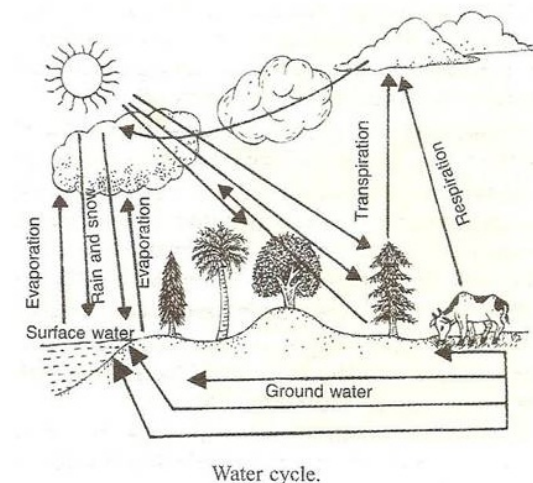
Solution SAQ - 39

The bacteria which help in nitrogen fixation are Azotobacter and Rhizobium. Some bacteria help to convert ammonia into nitrates. These are Nitrosomonas and Nitrobacter.

Solution SAQ - 40



Solution SAQ - 41



Solution SAQ - 42

The three aspects of nutrient cycling are:

- (i) Input of nutrients - An ecosystem receives the nutrients from an external source. It stores them for further use through biological processes.
- (ii) Output of nutrients - Nutrients move out of an ecosystem and many of them become input to another ecosystem.
- (iii) Internal nutrient cycling - Nutrients are continuously regenerated and stored in soil in forms available to plants. This is done by decomposers by the process of decomposition of detritus.

Solution SAQ - 43

The organisms get water from and return it to the global water cycle. Plants absorb water from the soil or water reservoir and add it to the air in vapour form by a process called transpiration. Water transpired by trees cools the surrounding air. Animals take water from the water reservoir or with food and return it to the air and vapours by respiration or to the soil by excretion. Mammals also

excrete water as sweat which evaporates from the water bodies. Water is added to the environment by the death and decay of organisms. Water vapour formed by transpiration and respiration form clouds and enters global water cycle. Rain adds water to the soil and reservoir for reuse by plants and animals. This completes the water cycle.

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