

Corrigendum/Explanation SFG 2025 Level 1 Test 18

There are no changes to the solutions/answers. Explanations have been provided for the students who have raised doubts.

Q.37) There was a doubt raised with respect to Statement 1 of the question that Nitrogen fixation is the process by which atmospheric nitrogen is converted into forms, such as ammonia and nitrates, that plants can absorb and use.

Explanation-Statement 1 is correct. Nitrogen fixation is a process that can be carried out in different ways including Biological Nitrogen Fixation (BNF), non-Biological Nitrogen Fixation, Chemical Nitrogen Fixation, Natural Nitrogen Fixation (for example by lightning) and nitrogen fixation by humans in the laboratory. In this process of nitrogen fixation the Nitrogen (N_2) is converted (i.e. fixed) into forms, such as ammonia and nitrates etc., that plants can absorb and use. The ammonia is mentioned in this regard in different sources as that is the most common example of nitrogen fixation but atmospheric nitrogen can be fixed in the forms of nitrates also.

Source: <https://chemistry.du.ac.in/wp-content/uploads/2023/01/5.-Nitrogen-fixation.pdf>

Q.47) There was a doubt raised with respect to option 4 of the question that the earthworms are decomposers or not?

Explanation-Option 4 is correct. With reference to the environment and ecology the decomposition is a complex process. Decomposers are those organisms who break down the complex molecules into their elemental states. Decomposition involves a number of processes including fragmentation, mixing, change in physical structure, egestion and concentration. All these processes are carried out by diverse organisms. Decomposer is a wider term that includes some types of detritivores as well. Though the process may vary but some detritivores are classified under decomposers. In this respect, earthworms play an important role in the process of fragmentation and are part of decomposers.

Source: <https://egyankosh.ac.in/bitstream/123456789/94766/1/Unit-1.pdf>

<https://egyankosh.ac.in/bitstream/123456789/12749/1/Unit-8.pdf>

https://egyankosh.ac.in/bitstream/123456789/59045/1/Unit7_Ecosystem%20Structure.pdf (page 50)

<https://education.nationalgeographic.org/resource/decomposers/>