

## Biology - 12th Class Biology Chapter 25 Short Questions Preparation

Q1. Define lichens. Or What are lichens?

**Ans 1: Lichens:** It is the association between algae and fungi. Fungi give protection to algae from desiccation while algae perform photosynthesis and provide nutrition to algae.

Q2. Write few lines on crustose lichens.

**Ans 1:** Crustose refers to land lifeless structure, any external protective layer surface on the rock, special types of lichens get impregnated in the form of crust. They live in extreme conditions, sometimes their surface is wet due to rain and dew drops. They absorb water during the dry season. They are quiescent or dormant, normally desiccated during dry season.

Q3. How does over grazing affect a grass land ecosystem?

**Ans 1:** Due to over grazing the productivity of the grass land is affected. If too many animals graze then grass will hardly regrow. Secondly the hooves of the grazing animals will trample the soil into a hard layer as a result of which rain water will not penetrate this soil. The final result of over grazing is barren land.

Q4. Sketch food chain to show various trophic levels

**Ans 1:** Grass > Deer > Lion > Vulture > Decomposer

**Ans 2:** Grass 1<sup>st</sup> trophic level

Deer 2<sup>nd</sup> trophic level

Lion 3<sup>rd</sup> trophic level

Vulture 4<sup>th</sup> trophic level

Decomposer 5<sup>th</sup> trophic level

Q5. Give the role of decomposers in an ecosystem.

**Ans 1:** Decomposers are the organisms which decompose the dead bodies and are called decomposers; they recycle the nutrients and make them available for plant growth.

Q6. Name three levels of integration in community.

**Ans 1:** Three levels of community integration are

**Ans 2:** i Individual level

ii Population level

iii Community level

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Q7. What is symbiosis? Give one example.

**Ans 1:** This is a beneficial association between two organisms, which brings benefit to both the organisms. For example, relation between algae and fungi to form lichens. Algae make food and also give it to fungi while fungi give protection to algae in return.

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Q8. Define food chain and food web only.

**Ans 1:** Process of eating and being eaten is called food chain.

**Ans 2:** Food web is combination of many food chains.  
for example; Grass-Cow-Man

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Q9. What is commensalism? Give an example. Or Define commensalism.

**Ans 1:** In this type of relationship, only one organism gets benefit from the relationship. The other is not affected at all. For example, Sharks may have small fish called remoras pick the scraps. The remoras get benefit from this relationship; the shark is not affected at all.

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Q10. What are biotic components of an ecosystem?

**Ans 1:** Living components of ecosystem are called biotic components; this includes producers, consumers and decomposers.

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