

## Biodiversity and ecological system” Fungi, the hidden network

### Questions to the subject

**Fungi, Mushrooms, Toadstools –  
what’s the difference?**



**Good Luck!**

**(one or more answers might be correct**

**20 points)**

- 1. How are fungi different from plants?**
  - Fungi have cell walls made from chitin,
  - fungi do not use photosynthesis,
  - fungi lack chlorophyll in their cells.
  - all of the above
  
- 2. How do fungi get their nutrition?**
  - photosynthesis,
  - they are heterotrophic
  - they are autotrophic
  
- 3. The mycorrhiza is a special form of ...**
  - symbiosis
  - parasitism
  - food-poisoning
  - traditional Bavarian dancing
  
- 4. There is a network between fungi and algae, the lichens.**
  - Fungi get organic nutrients from the algae
  - algae get water and mineral-salts from the fungus
  - algae get shelter from the fungi
  - it is a symbiotic relationship
  - all of the above
  - none of the above
  
- 5. How does man/woman profit from fungi?**
  - Some mushrooms and truffles provide delicious food,
  - some fungi help in fighting diseases,
  - they break down organic matter so it can be reused by the nutrient cycles,
  - some fungi make bread rise,
  - some fungi produce alcohol,
  - all of the above.
  
- 6. There is also an interaction between animals and fungi. Pick the right answers!**
  - slugs cultivate fungi for food,
  - some termite species are cultivating fungi for food,

- some insects inject their eggs into fungi
- some fungi parasitize insects (caterpillars, chrysalis) and other animals
- birds build their nests in trees attacked by bracket fungi

**7. Which of the following fungi destroy its host?**

- Porcini Mushroom *Boletus edulis*
- Honey-Fungus *Armillaria mellea*
- Field Mushroom *Agaricus campestris*
- Fly Agaric *Amanita muscaria*
- Tinder fungus *Fomes fomentarius*

**8. Which ones are symbiotic partners of the trees?**

- Porcini Mushroom *Boletus edulis*
- Honey-Fungus *Armillaria mellea*
- Field Mushroom *Agaricus campestris*
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**9. What is meant by the “hidden network”?**

- a secret circle of undercover agents
- the interconnection of tree roots and mycelial strands (mycorrhiza)
- an invisible spider web
- the dark net

**10. We are talking about ecological systems. Where can you find fungi?**

- In dry meadows,
- in mires,
- in saltwater,
- in sweet water,
- in icy water,
- in fields,
- in all kinds of forests,
- on stones,
- all of the above.

**11. Some families and species of fungi you can find in all continents.**

**If you think about the reason, what would you answer?**

- people took them with them when they emigrated,
- the spores fly with the wind around the world,
- animals transported them,
- all of the above,
- none of the above.

**12. Your friend asks, whether he can eat a fungus he had found.**

What do you answer?

- In principle, you can eat every fungus. But some of them only once.
- Liking the smell and the taste? Then you can eat it.
- If you cook the fungus, the poison will be destroyed,
- If animals have eaten part of the fungus, it is a good one,
- You better look it up in a guide about fungi and read the text.
- You better ask an expert.

**13. You went to the woods near Laufen and found the following species: Boletus edulis, Amanita phalloides. Agaricus campestris and Armillaria mellea. You want to cook a meal for your host family. Which species will you take?**

- Amanita phalloides
- Boletus edulis
- Agaricus campestris
- Armillaria mellea
- Fomes fometarius
- all of them

**14. Fungi play a vital role in ecosystems. Pick out the right answers!**

- they effect climate change
- most of the trees grow better without mycorrhiza.
- they effect climate change
- most of the trees grow better without mycorrhiza.
- fungi can cause many problems in agriculture
- fungi play an important role in human and animal nutrition.

**15. When is the main fruiting season of mushrooms in central Europe?**

- in spring
- in summer
- in autumn
- in winter
- perennial

**16. Discuss, why can you breed**

***Agaricus campestris*, but you'll fail with *Boletus edulis*. (4 points)**

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**17. Discuss the role of fungi as an economical factor (6 points)**

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