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Bio 102 Assignment

Q1. How are fungi important to man

Fungi are important to man in the following ways:

1. They are important decomposers in most ecosystems
2. They can be used as food in the form of mushrooms
3. Fungi can be used to produce citric acid, antibiotics, and human hormones.

Q2. Illustrate the cell structure of a unicellular fungus with a well labelled diagram

Q3. Outline the sexual reproduction in a filamentous form of fungi.

Sexual reproduction in fungi consists of three sequential stages which are plasmogamy, karyogamy,

and meiosis . Karyogamy involves the fusion of haploid nuclei and formation of diploid nuclei.

Q4. How do bryophytes adapt to their environment

Bryophytes can adapt to their environment by

1. They possess structures for absorbing water and nutrients from the soil
2. They possess waxy cuticles that keeps them from drying out through the process of desiccation
3. They possess gametalia from keeping their plants gametes from drying out

Q5. Describe the following with illustration

1. Eusteels
2. Atactostele
3. Siphonostele
4. Dicostele

1. EUSTEELS: This is a type of Stele in which the vascular tissues forms a central ring of bundles around the pith

2. Atactostele: A type of stele found in monocots in which the vascular tissues exists as scattered bundles

3. Dicostele: It is a type of Stele in which the vascular cylinder is broken up into a longitudinal series or a network of strands around the pith

Q6. Illustrate the life cycle of a primitive vascular

