1. What did Wallace contribute?

   ☐ Work on speciation

   ☐ Independently proposed natural selection

   ☐ Discovered DNA

   ☐ Studied warning colours in animals

   Tick every correct option.

2. Why do organisms in ice or peat bogs not decay?

   ☐ They are made of stone

   ☐ Minerals kill them

   ☐ Conditions lack the oxygen, warmth or moisture decomposers need

   ☐ They are too big

3. In the binomial name Panthera leo, what is Panthera?

   ☐ The kingdom

   ☐ The genus

   ☐ The family

   ☐ The species

4. A population falls from 120 to 90. What is the percentage fall?

   _____ %

5. Mean 5 plants per 0.25 m^2 quadrat; field area 400 m^2. Estimate the population.

   _____ plants

6. Which environmental changes can shift distributions?

   ☐ Temperature

   ☐ Atmospheric gases

   ☐ Water availability

   ☐ The name of the species

   Tick every correct option.

7. Which human land uses reduce habitat?

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   ☐ Restoring bogs

   ☐ Farming

   ☐ Quarrying

   Tick every correct option.

8. Which help maintain biodiversity?

   ☐ Breeding programmes for endangered species

   ☐ Recycling instead of landfill

   ☐ Growing one crop over a larger area

   ☐ Replanting hedgerows and field margins

   Tick every correct option.

9. Why is biomass lost between trophic levels?

   ☐ Not all of an organism is eaten

   ☐ Some eaten food is egested in faeces

   ☐ Glucose is used in respiration

   ☐ Biomass is turned into sunlight

   Tick every correct option.

10. What is mycoprotein made from?

    ☐ Bacteria in milk

    ☐ Soya beans

    ☐ Algae

    ☐ A fungus, Fusarium

1. **Work on speciation; Independently proposed natural selection; Studied warning colours in animals**

   DNA came much later.

2. **Conditions lack the oxygen, warmth or moisture decomposers need**

   Decomposers cannot work.

3. **The genus**

   Genus first, then species.

4. **25 %**

   $30 \div 120 \times 100 = 25\%$.

5. **8000 plants**

   $5 \div 0.25 = 20$ per m^2; $\times 400 = 8000$.

6. **Temperature; Atmospheric gases; Water availability**

   Three factors in the specification.

7. **Building; Farming; Quarrying**

   Restoration increases habitat.

8. **Breeding programmes for endangered species; Recycling instead of landfill; Replanting hedgerows and field margins**

   A single crop reduces biodiversity.

9. **Not all of an organism is eaten; Some eaten food is egested in faeces; Glucose is used in respiration**

   Respiration and waste.

10. **A fungus, Fusarium**

    A mould.

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