5.3 Classification of Biodiversity

Classification

Outline the binomial system of nomenclature

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List the three domains of life

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List the seven levels in the hierarchy of taxa, using examples from two different kingdoms

Taxa	Plant Example	Animal Example
Common Name		

Compare different methods of biological classification

Natural: ……

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Artificial: ……

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Phylogenetic: ………

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Biodiversity

Distinguish between the following phyla of plants, using external recognition features

Bryophyte   Filicinophyte   Coniferophyte   Angiospermophyte

Bryophyta:

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Filicinophyta:

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Coniferophyta:

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Angiospermophyta:

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Construct a simple dichotomous key (diagrammatic) to identify the four plant phyla

Distinguish between the following phyla of invertebrate animals, using external recognition features

| Porifera | Cnidaria | Platyhelmintha | Annelida | Mollusca | Arthropoda |

Porifera:

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Cnidaria:

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Platyhelmintha:

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Annelida:

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Mollusca:

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Arthropoda:

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Describe the key characteristics of phylum Chordata

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Distinguish between the following classes of vertebrate animals, using simple recognition features

| Fish | Amphibian | Reptile | Bird | Mammal |

Fish:

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Amphibians:

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Reptiles:

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Birds:

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Mammals:

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Construct a simple dichotomous key (descriptive) to identify the five vertebrate classes

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