***Wildlife***

Wildlife is the entire native uncultivated flora and undomesticated fauna of any country.

**Biodiversity**

Biodiversity is variability of life.

***Biodiversity of vertebrates in Pakistan***

1.Pisces=ichthyology=

2.Reptiles= herpetology=195

3.Amphibians= ?=22

4.Aves=668

5.Mammals=mammalogy=174

6.Freshwater=198

7.Marine=1110

***Measure of Biodiversity***

1.Interms of richness

2.Evenness(number)

***Biosphere***

Biosphere is the part of universe that supports life is known as biosphere.

There are three types of biosphere:

1.lithosphere

2.Atmosphere

3.Hydrosphere

Life existed on planet Earth 4.6 billion years ago.

Resiliency of planet Earth for life.

**Temperature**

1.Tropic

2.Desert

3.Cold

***Atmosphere***

Crucial role in sustainability of life 21% O2 and 78%N2,.

Protective gaseus blanket around earth.

4 sub divisions of atmosphere.

1.Troprsphere

2.Stratosphere

3.Mesosphere

4.Thermosphere

***1.Troposhere***

**The first** division in which we live is called troposphere.(protosphere)

More upward temperature.

***2.Stratosphere***

Protective in nature. We move towards the vertical zone.

***3.Mesosphere***

***5.Thermosphere***

***Lithosphere***

4 climatic zones and 4 subdivisions of lithosphere on the basis of temperature.

1.Tropical zone (hot winterless zone)

2.Sub-tropical zone (prolong summer short winter)

3.Temperate zone (Hot summer severe winter)

4.Alpine zone (prolong winter short summer)

Hydrosphere

There are two types of water bodies.

1.Running water (lotic)

2.Static water (

All abiotic factors are not important for running water but crucial for static water.

There are 5 oceans.

1.Pacific ocean

2.Atlantic ocean

3.Arctic ocean

4.Antarctic ocean

5.Indian ocean (sea arabian)

***Lotic Habitat (Running water bodies)***

On the basis of temperature we can divide static(lentic) water bodies in 3 zones/layers/strata:

1.Epilimnion

2.Thermolimnion

3.Hyperlimnion

***Lentic Habitat (Static water bodies)***

1.Troposphere pause

2.strata pause

3.meso-pause