

Semester - V

Subject - Botany

Course - Major - 9

By: Dr Umesh Kumar (Guest Teacher)

Question :- Differentiate between Biosphere and Biome.

Answer :- Biosphere (Ecospheres): It is life zone or living mantle of the earth which comprises all the earth's terrestrial and aquatic biomes. Biosphere has a thickness of about 22.5 Km from ocean floor to top of mountains. It is made up of lower atmosphere, pedosphere or lithosphere and hydrosphere (oceans, rivers & lakes) where living beings are bound.

Biome

- (i) It is unit of ecological organisation to biosphere
- (ii) It is delimited by climate.
- (iii) It is made up of one or more landscapes
- (iv) It is of two types - terrestrial and aquatic

Biosphere

- (i) It is the highest ranking of ecological organisation.
- (ii) It comprises the whole living zone of the earth.
- (iii) It is formed of all the biomes of earth comprising all landscapes and all ecosystems.
- (iv) It exists in all the three segments of the earth - atmospheric, lithospheric and hydrospheric.