

ZOO510–ECONOMIC ZOOLOGY

Assignment No. 1 (Audio Assignment)

Spring 2022

- Total time of audio will be 5 minutes.

1-Your name and introduction of the course
ZOO510 (30 sec) (Very Important)

Start with the name of Allah the most beneficent and merciful.

Assalam o Alaikum!

First of all I would like to thank you for giving this opportunity to introduce myself .

My name is () S\D\O (.....). I BORN IN (.....) FROM THESIL ()AND DISTRICT (.....).

I AM STUDENT OF (....) SEMESTER OF Virtual university at the campus(.....)

My VU id is(.....)

Introduction of course...

I am studying this course (....). This is covering alot of about (.....)

I hope this course enable us to (.....)

2-What is economic zoology?

(30 sec)

Economic zoology deals with the application of zoological knowledge for the benefit of mankind. It includes culturing animals for mass production for human use and to control or eradicate animals that are injurious to man directly or indirectly

It is a specialized branch of zoology which deals with animal world that is associated with the economy, health, and welfare of humans. Actually, animal world is related to economy by all means that we can count.

3-What is aqua culture and qualities of cultured species? (2 minute)

Aquaculture, also often known as aquafarming, is the producing of aquatic organisms like fish, crustaceans, molluscs and aquatic plants.

Aquaculture involves cultivating freshwater and salt water populations underneath controlled conditions, which enables it to be contrasted together with commercial fishing that is the harvesting involving wild fish.

(**Aquaculture is the controlled process of cultivating aquatic organisms**, especially for human consumption. It's a similar concept to agriculture, but with fish instead of plants or livestock. Aquaculture is also referred to as fish farming.)

qualities of

cultured species

- **Fast growth,**
- **short food chain,**
- **efficient conversion of food,**
- ready acceptance of compounded feeds, good table quality,
- disease resistance,

- ease of breeding in captivity,
- early maturation,
- high fecundity,
- tolerance to a wide range of environmental parameters,

4-Differentiate between aeration and oxygenation? (2 minute)

The difference between aeration and oxygenation is a matter of quality.

Aeration is the process of adding oxygen via the air, while oxygenation is the process of adding pure oxygen to the wort.

With aeration it is impossible to get more than 8 ppm into the wort because dry air is made up of only 21% oxygen.

Oxygenation involves injecting the wort with 99% pure oxygen. Aeration involves injecting the wort with air, of which only 21% (by mole) is oxygen. Aeration will take

longer and if you are using a small fermented foaming may be an issue. Aeration brings water and air in close contact in order to remove dissolved gases (such as carbon dioxide) and oxidizes dissolved metals such as iron, hydrogen sulfide, and volatile organic chemicals (VOCs). Aeration is often the first major process at the treatment plant.

An aeration system works to evenly mix water temperature from the top to the bottom of a pond and eliminate the thermo cline. ... Aeration works to move warmer water from the bottom of the pond to the top and can keep an area of the surface free of ice. This allows oxygenation of the pond.

