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**Lecture title: Introduction and Definitions of terms**

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***Summary: Introduction and Definitions of terms***

Biology is the branch of scientific life that deals with living organisms , including their structure, function, growth, origin and evolution.

There are many

Branches of biology:

Zoology: is the branch of biology that studies the animal kingdom.

Botany :is the branch of biology that studies the plant life.

Microbiology: is the branch of biology that studies Microscopic organisms.

Mainly

Three

major

branches

Of

biology

Cytology(cell biology) : is the branch of biology that



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studies structure, function and behavior of cells.

Histology : is the branch of biology that studies of microscopic structure of tissues.

Histopathology : is the branch of biology that studies of changes in tissues caused by diseases

Embryology : is the branch of biology that dealing with embryos and their development.

Taxonomy: is the branch of biology that studies classification and describing organisms.

Anatomy: is the branch of biology that dealing with the structure of the body of organisms.

Physiology: is the branch of biology that studies functions of living systems.

Genetic Science: is the branch of biology that studies of gene, genetic variation and heredity in organisms.

Ecology: is the branch of biology that studies interactions of organisms with one another and their surroundings.

Evolution: is the branch of biology that studies the process of growth and development, or the theory that

organisms have grown and developed from past organisms.

Biophysics : is the branch of biology that studies physical processes in living things.



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**Biochemistry:** is the branch of biology that studies chemical substances found in living organisms and chemical interactions of these substances with each other.

**Immunology:** is the branch of biology that studies immune system of living organisms.

**Virology:** is the branch of biology that deals with the study of viruses and viral disease.

**Bacteriology:** is the branch of biology that deals with the study of bacteria and bacterial disease.

**Parasitology:** is the branch of biology that deals with the study of parasite and parasitic disease.

**Mycology:** is the branch of biology that deals with the study of fungi and fungal disease.

**Pathology:** is the branch of biology that studies affect and causes of disease or injury.