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OUTLINE OF BIOLOGY (LIFE SCIENCES)

- organic verse needed for survival of **life** or towards
 - **health verse**
 - breath
 - **food**
 - minerals
- organic verse caused by the accidents , accidental organic verse
 - **disease verse**
- accidental organic verse leading to the stop of **life** , there after the
 - **death verse**
 - **death** changes , **death** cycle , recycling of **body** matter
- towards the creation of new
 - **life verse**
 - **life evolution**
 - **life transmission**
- The basic structural versions of **life**
 - **living creatures**
- biomachines , organic machines , organic tools , organic instruments , mortal instruments
 - organic computers
- **life** matter , organic matter , organs , organelles , biological parts , organic structures , organic materials

HISTORY

METHODOLOGY AND SCIENCE

CHEMICAL BASIS

CELLS OR BASIS OF LIFE

GENETICS

EVOLUTION

DIVERSITY

PLANT FORM AND FUNCTION

ANIMAL FORM AND FUNCTION

ECOLOGY

BRANCHES

- LIFE SCIENCES

- LEVEL BASED STUDY

- **Cell biology (cytology)** – study of the **cell** as a complete unit, and the molecular and chemical interactions that occur within a living **cell**
 - Genetics – the study of genes and heredity
 - **Histology** – the study of tissues
 - Organology , organ morphology , systems physiology and anatomy
 - Immunology – the study of the immune system
 - **Neuroscience** – the study of the nervous system
 - Systems biology – the study of the integration and dependencies of various components within a biological system, with particular focus upon the role of metabolic pathways and **cell**-signaling strategies in physiology
 - whole **body** level
 - study of structure
 - **Anatomy** – study of form and function, in plants, animals, and other organisms, or specifically in humans
 - study of function
 - **Physiology** – the study of the functioning of living organisms and the organs and parts of living organisms
 - study of molecular or chemical structure and process at the whole level
 - **Biochemistry** – study of the chemical reactions required for **life** to exist and function, usually a focus on the cellular level
 - Structural biology – a branch of molecular biology, biochemistry, and biophysics concerned with the molecular structure of biological macro-molecules
 - Enzymology – study of enzymes
 - study of quantum structures in **life**
 - Quantum biology – the study of quantum phenomena in organisms
 - application of physics to biology
 - Biophysics – study of biological processes by applying the theories and methods that have **been** traditionally used in the physical sciences
 - Biomechanics – the study of the mechanics of living beings
 - Application of mathematics to biology
 - Theoretical biology – the use of abstractions and mathematical models to study biological phenomena
 - STUDY OF ACCIDENTS , FOREIGN ORGANISMS
 - Toxicology – the nature, effects, and detection of poisons
 - Bacteriology – study of bacteria
 - **Microbiology** – the study of microscopic organisms (microorganisms) and their interactions with other living organisms
 - Mycology – the study of fungi
 - Parasitology – the study of parasites, their hosts, and the relationship between

them.

- **Pathology** – the study of the causes and effects of disease or injury
- **Virology** – the study of viruses like submicroscopic, parasitic particles of genetic material contained in a protein coat – and virus-like agents
- **STUDY OF ARTIFICIAL AND SYNTHETIC INTEGRATIONS IN TO LIFE**
 - **Synthetic biology** – the design and construction of new biological entities **such** as enzymes, genetic circuits and cells, or the redesign of existing biological systems
 - **Pharmacology** – the study of drug **action**
- **STUDY OF CAUSES AND ORIGINS OF LIFE**
 - **Developmental biology** – the study of the processes through which **an** organism forms, from zygote to full structure
- **STUDY OF OTHER SPECIES**
 - **Zoology** – the study of animals
- **Ethology** – study of behavior
- **STUDY OF DEATH**
 - **Thanatology**

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