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LIFE SCIENCES (जीव विज्ञान (Biology))

- 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
 - **human** level or whole **body** level
 - study of structure
 - **शरीर रचना विज्ञान (Anatomy)** – study of form and function, in plants, animals, and other organisms, or specifically in humans
 - study of function
 - **शरीर क्रिया विज्ञान (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
 - **जैव रसायन (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
 - **आणविक जीव विज्ञान (Molecular Biology)**
 - 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
 - **जीवाणु विज्ञान (Bacteriology)** – study of bacteria
 - **Microbiology** – the study of microscopic organisms (microorganisms) and their interactions with other living organisms
 - **कवक विज्ञान (Mycology)** – the study of fungi
 - Parasitology – the study of parasites, their hosts, and the relationship between them.
 - **जंतु रोग विज्ञान (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
 - प्राणी विज्ञान (Zoology) – the study of animals
 - वनस्पति विज्ञान (Botany)
- Ethology – study of behavior
- पारिस्थितिकी विज्ञान (Ecology)
- जीवाश्म विज्ञान (Paleontology)

APPLIED LIFE SCIENCES

- surgery
- radiology

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