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**11th BIOLOGY**

CHAPTER 2

# **SYSTEMATICS OF LIVING ORGANISMS**



## LIVING OR NON-LIVING?

**CHOOSE THE CORRECT OPTION**

|                        |                         |
|------------------------|-------------------------|
| <b>THEY EAT</b>        | <b>THEY DO NOT GROW</b> |
| LIVING                 | NON-LIVING              |
| <b>THEY REPRODUCE</b>  | <b>THEY ARE BORN</b>    |
| LIVING                 | NON-LIVING              |
| <b>THEY DO NOT EAT</b> | <b>THEY BREATH</b>      |
| LIVING                 | NON-LIVING              |
| <b>THEY DIE</b>        | <b>THEY GROW</b>        |
| LIVING                 | NON-LIVING              |

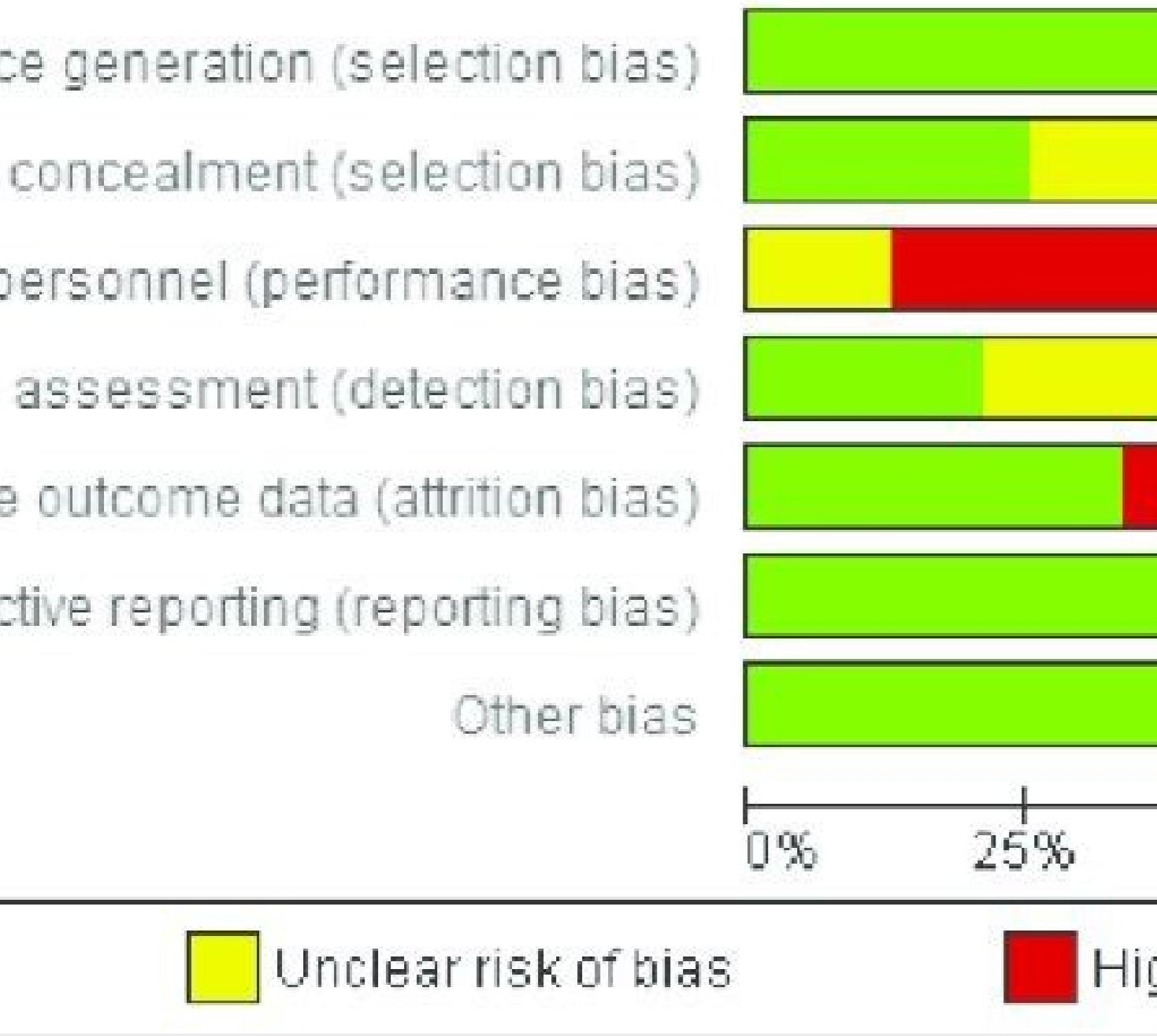
# Living Organisms Diversity and Principles of their Classification

**Living organisms vary from microscopic organisms that cannot be seen by the naked eye to large animals such as elephants and camels.**



## Systematics

- Systematics: organizes tremendous diversity of living things in the context of evolution
  - Classification of organism should reflect their phylogeny
  - Hypothesis based on several lines of evidence



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Appears in HSC Science (General) 11th Maharashtra State Board Concepts covered in Living World are Taxonomical Aids, The Living World Exercise No. of questions Pages Exercise 125 Concepts covered in Systematics of Living Organisms are Acellular Organisms, Binomial Nomenclature, Chemotaxonomy, Cladogram, Classification of Systematics, DNA Barcoding, Numerical Taxonomy, Phylogeny, Salient Features of Five Kingdoms, Systematics of Living Organisms (Introduction), Taxonomic Hierarchy, Taxonomic Hierarchy of Living Organisms: Unit of Classification, Three Domains of Life, Units of Classification Exercise No. of questions Pages Exercise 2517 to 18 Concepts covered in Kingdom Plantae, Plant Life Cycle and Alternation of Generations, Salient Features of Major Plant Groups Under Cryptogams, Salient Features of Major Plant Groups Under Phanerogams Exercise No. of questions Pages Exercise 2527 to 28 Concepts covered in Kingdom Animalia are Animal Body of desU airetirC , noitacifissalC laminA Number Classification of questions Research 3342 to 43 Exercise 142 An Health Remove all the features Concepts addressed in the Structure and Organization of the Cell are Cells ©: Fundamental Unit of Life, Components of the Eukaryotic Cell, Cell © Types Exercise Of Questions Video 2957 to 58 Concepts covered in Biomoláculas © in Living System, Biomolculas © in the Cell, Carbohydrates, Classification of Enzymes, Enzymes - Substrate Interactions, Factors That Affect The Enzymatic Activity, LÁpidos, Mechanism of Enzymatic Action, Metabolismo Pool, Metabolism, Nature of Enzymatic Action, Nomenclature of Enzymes, Nucleic Acids, Proteins ©, Secondary Metabolite (SMs) NoercÁcio de perguntas PÁginas Exercise 4474 to 75 Concepts covered in Cell Division are © dog cycle, Introduction of Cell Division, Meaning © of Mitosis, Types of Cell © Division Exercise No. of pages Exercise 2683 to 84 Concepts covered in Plant Tissues and Anatomy are Root, Trunk and Leaf Anatomy, Body of CortiÁsa and Undáñrio Growth, Meristems or Meristematic Fabrics, Permanent Tissue, Secondary Growth in Plants, Tissues © of Questions Research 2995 to 96 Advertising Remove all the dities Concepts covered in Plant Morphology in Flowering are Angiosperms, Morphology, Study of Some Important Families Exercise Of Questions Body 35114 to 115 Concepts covered in Animal Tissues, Connective Tissue, Epithelial Tissue, Histology, Muscle Tissue, Neural Tissue Exercise No. of questions Body, System Of Life, Digestive System of Cockroach, External Morphology, Habit and Habitat, Human Excretory System, Human Nervous System, Human Breathing System, Interactions with Humanity, Human System Position systemic exercise. 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