

JAMB Topics for Biology

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Broad Topic

Sub Topics

Variety of Organisms

- Living organisms: characteristics, cell structure and function
- Levels of organization in living organisms
- Evolution among Monera, Protista, Fungi, Plantae
- Evolution among Pteridophyta and Spermatophyta
- Evolution in Animalia: invertebrates
- Evolution in Animalia: vertebrates
- Structural/functional and behavioural adaptations
- Adaptive colouration and functions
- Behavioural adaptations in social animals
- Structural adaptations in organisms
- Advancement of animals and their economic importance

Form and Functions

- Internal structure of a flowering plant
- Internal structure of a mammal (excretory, reproductive and excretory organs)
- Modes of nutrition (autotrophic and heterotrophic)
- Types of nutrition
- Plant nutrition: photosynthesis
- Plant nutrition: mineral requirements
- Animal nutrition: classes of food substances
- Animal nutrition: food tests
- Animal nutrition: mammalian tooth
- Mammalian alimentary canal
- Nutrition process: ingestion, digestion, absorption, assimilation
- Transport: need and materials for transportation
- Transport: circulatory and vascular systems
- Transport: media and mechanisms of transportation
- Respiration: organs and surfaces
- Mechanism of gaseous exchange
- Aerobic respiration
- Anaerobic respiration
- Excretion: types of excretory structures
- Excretory mechanisms: kidneys, lungs, skin
- Excretory products of plants

Broad Topic

Sub Topics

- Support and movement in organisms
 - Tropic, tactic, nastic and sleep movements
 - Supporting tissues in animals
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Ecology

- Types and functions of skeletons
 - Factors affecting distribution of organisms: abiotic
 - Factors affecting distribution of organisms: biotic
 - Symbiotic interactions of plants and animals
 - Energy flow in ecosystem: food chains and webs
 - Nutrient cycling: carbon cycle
 - Nutrient cycling: water cycle
 - Nutrient cycling: nitrogen cycle
 - Natural habitats: aquatic
 - Natural habitats: terrestrial/arboreal
 - Local (Nigerian) biomes
 - Population density and overcrowding
 - Adaptation for survival and competition
 - Intra- and inter-specific competition
 - Competition and succession
 - Factors affecting population size: biotic and abiotic
 - Ecological succession
 - Soil: types and characteristics
 - Soil components: organic, inorganic, air, water, organisms
 - Soil fertility and conservation
 - Diseases: common, endemic, and transmissible
 - Pollution: sources, types, effects and control
 - Sanitation and sewage
 - Conservation of natural resources
 - Game reserves and national parks
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Broad Topic

Sub Topics

Heredity and Variations

- Morphological variations in population
- Physiological variations
- Application of discontinuous variation
- Heredity: heritable and non-heritable characters
- Chromosomes and transmission of hereditary characters
- Probability in genetics and sex determination
- Application of heredity in agriculture
- Application of heredity in medicine
- Sex-linked characters

Evolution

- Theories of evolution: Lamarck, Darwin, organic theory
- Evidence of evolution: fossils, anatomy, physiology, genetics

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Total Topics: 5

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