Biology Topics

Syllabus content at a glance:

						C 11 1	
	haract	terictics	and c	·laeen	tication	of livin	g organisms
	Halac		alla c	nussii	iloution	OI HAIH	g organisms

- 1.1 Characteristics of living organisms
- 1.2 Concept and use of a classification system
- 1.3 Features of organisms
- 1.4 Dichotomous keys

2. Organisation of the organism

- 2.1 Cell structure and organisation
- 2.2 Levels of organisation
- 2.3 Size of specimens

3. Movement in and out of cells

- 3.1 Diffusion
- 3.2 Osmosis
- 3.3 Active transport

4. Biological molecules

Enzymes

6. Plant nutrition

- 6.1 Photosynthesis
- 6.2 Leaf structure
- 6.3 Mineral requirements

7. Human nutrition

- 7.1 Diet
- 7.2 Alimentary canal
- 7.3 Mechanical digestion
- 7.4 Chemical digestion
- 7.5 Absorption

8. Transport in plants

- 8.1 Transport in plants
- 8.2 Water uptake
- 8.3 Transpiration
- 8.4 Translocation (Extended candidates only)

9. Transport in animals

- 9.1 Transport in animals
- 9.2 Heart
- 9.3 Blood and lymphatic vessels
- 9.4 Blood

10. Diseases and immunity

11. Gas exchange in humans

12. Respiration

- 12.1 Respiration
- 12.2 Aerobic respiration
- 12.3 Anaerobic respiration

13. Excretion in humans

14. Coordination and response

- 14.1 Nervous control in humans
- 14.2 Sense organs
- 14.3 Hormones in humans
- 14.4 Homeostasis
- 14.5 Tropic responses

15. Drugs

- 15.1 Drugs
- 15.2 Medicinal drugs
- 15.3 Misused drugs

16. Reproduction

- 16.1 Asexual reproduction
- 16.2 Sexual reproduction
- 16.3 Sexual reproduction in plants
- 16.4 Sexual reproduction in humans
- 16.5 Sex hormones in humans
- 16.6 Methods of birth control in humans
- 16.7 Sexually transmitted infections (STIs)

17. Inheritance

- 17.1 Inheritance
- 17.2 Chromosomes, genes and proteins
- 17.3 Mitosis
- 17.4 Meiosis
- 17.5 Monohybrid inheritance

18. Variation and selection

- 18.1 Variation
- 18.2 Adaptive features
- 18.3 Selection

19. Organisms and their environment

- 19.1 Energy flow
- 19.2 Food chains and food webs
- 19.3 Nutrient cycles
- 19.4 Population size

20. Biotechnology and genetic engineering

- 20.1 Biotechnology and genetic engineering
- 20.2 Biotechnology
- 20.3 Genetic engineering

21. Human influences on ecosystems

- 21.1 Food supply
- 21.2 Habitat destruction
- 21.3 Pollution
- 21.4 Conservation