Universitat Internacional de Catalunya Information and Admissions Service



Tests for Admission to the Bachelor's Degree in Bioengineering. 2020-2021 Academic Year

Subject

BIOLOGY

- 1. Composition of Living Beings
- 2. Carbohydrates
- 3. Lipids
- 4. Proteins
- 5. Nucleic acids
- 6. The Cell: Unit of Structure and Function
- 7. Cell Membrane
- 8. Membrane-Delimited Cell Organelles
- 9. Reproduction and Relationship of Eukaryotic Cell
- 10. DNA Duplication and Protein Biosynthesis
- 11. Mutations, Genes and Genetic Engineering
- 12. Reproduction and Development of Multicellular Organisms
- 13. Metabolism
- 14. Molecular Biology
- 15. Evolutionary Genetics
- 16. Ecology
- 17. Microbiology
- 18. Immunology

CHEMISTRY

- 1. Foundations of Chemistry
- 2. Gases
- 3. Mixtures and Solutions
- 4. Structure of the Atom and the Periodic Table
- 5. Chemical Bonding
- 6. Formulation
- 7. Chemical Reaction
- 8. Chemical Reactions in Solution
- 9. Energy and Reaction Speed
- 10. Carbon Chemistry
- 11. Functional Groups



PHYSICS

- 1. Physical Magnitudes and Their Measurement
- 2. Kinematics in One Dimension
- 3. Kinematics in Two Dimensions
- 4. Newton's Forces and Laws
- 5. Conservation of Momentum
- 6. Work and Energy
- 7. Energy Conservation
- 8. Electrical Current
- 9. Wave Motion
- 10. Optics

MATHEMATICS

- 1. Real Numbers
- 2. Equations and Inequalities
- 3. Trigonometry
- 4. Complex Numbers
- 5. Vectors
- 6. Analytic Geometry
- 7. Conics
- 8. Functions
- 9. Elemental Functions
- 10. Limits and Continuity
- 11. Derivatives
- 12. Function Graphs
- 13. Integrals
- 14. Two-Dimensional Statistics
- 15. Probability