

## 29. PHYSICAL SCIENCES (Updated February 2023)

### A. MEANS OF ASSESSMENT

Paper 1	3 hours	200 marks (scaled to 150 marks)
Paper 2	3 hours	200 marks (scaled to 150 marks)
School-Based Assessment (SBA)		100 marks

**400 marks**

### B. REQUIREMENTS

#### 1. Examination

- Assessment tasks and questions will be based on the Subject Assessment Syllabus as outlined in Section E of this document.
- There will be two examination papers that will be written on different days.
- A variety of questioning styles will be employed in the final examination with a maximum of 10% of the marks being in the multiple-choice format.

### WEIGHTING OF KNOWLEDGE AREAS

**Table 1 – Physical Sciences Paper I (Physics)**

Content Areas	Approximate Marks ( $\pm 10$ marks)	Approximate % ( $\pm 5\%$ )
Kinematics (Motion in 1D)	50	25
Newton's Laws and Applications of Newton's Laws	30	15
Momentum, Impulse, Work, Energy and Power	30	15
Gravitational and Electric Fields	20	10
Electric Circuits	30	15
Electrodynamics	24	12
Photons and Electrons	16	8

**Table 2 – Physical Sciences Paper II (Chemistry)**

Content Areas	Approximate Marks ( $\pm 10$ marks)	Approximate % ( $\pm 5\%$ )
Quantitative Chemistry	30	15
Chemical Bonding	20	10
Energy Change & Rates of Reactions	20	10
Chemical Equilibrium	25	12,5
Acids and Bases	25	12,5
Electrochemistry	40	20
Organic	40	20

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**TD Snyder**



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### **Progress in Ecological Stoichiometry** Dedmer B. Van de Waal, James J. Elser, Adam C. Martiny, Robert W.

Sterner, James B. Cotner, 2018 Ecological stoichiometry concerns the way that the elemental composition of organisms shapes their ecology. It deals with the balance or imbalance of elemental ratios and how that affects organism growth, nutrient cycling, and the interactions with the biotic and abiotic worlds. The elemental composition of organisms is a set of constraints through which all the Earth's biogeochemical cycles must pass. All organisms consume nutrients and acquire compounds from the environment proportional to their needs. Organismal elemental needs are determined in turn by the energy required to live and grow, the physical and chemical constraints of their environment, and their requirements for relatively large polymeric biomolecules such as RNA, DNA, lipids, and proteins, as well as for structural needs including stems, bones, shells, etc. These materials together constitute most of the biomass of living organisms. Although there may be little variability in elemental ratios of many of these biomolecules, changing the proportions of different biomolecules can have important effects on organismal elemental composition. Consequently, the variation in elemental composition both within and across organisms can be tremendous, which has important implications for Earth's biogeochemical cycles. It has been over a decade since the publication of Sterner and Elser's book *Ecological Stoichiometry* (2002). In the intervening years, hundreds of papers on stoichiometric topics ranging from evolution and regulation of nutrient content in organisms to the role of stoichiometry in populations, communities, ecosystems, and global biogeochemical dynamics have been published. Here we present a collection of contributions from the broad scientific community to highlight recent insights in the field of Ecological Stoichiometry.

### *The Commercial and Financial Chronicle*, 1909 **Magellanic Sub-Antarctic Ornithology** Ricardo Rozzi, Jaime E.

Jimenez, 2014-06-15 The first synthesis of current knowledge of forest and wetland birds in the world's southernmost forests. This book contains both original work by Rozzi and Jimenez and the results of a decade of research conducted by the scientists associated with the Omora Park. The first part is a guide to the forest bird populations and habitats in the Reserve and a summary of the data recorded for the bird species captured with mist nets and banded. The information is given in two pages for each species, with English, Spanish, and scientific names, as well as a full-color photo, distribution maps, a table with original morphological information, a figure indicating abundance rates, and a brief description of the species' main features. The second part is a selection of twenty-two published articles on ornithological research at Omora Park during its first decade of studies from 2000 to 2010. Eleven of the twenty-two articles were originally published in Spanish and are here translated and available to a larger readership. The reprinting of these articles in one place provides interested scientists, students, and wildlife managers a unique and convenient resource. This book has two important sources of information: original morphological data and the compilation of all publications about the birds in the southern extreme of South America. I think the book will have great significance. Victor R. Cueto, professor of natural sciences, Universidad de Buenos Aires, Argentina. A

wonderfully rich and in depth contribution to Sub Antarctic Ornithology Julie Hagelin senior research scientist University of Alaska Fairbanks      **Commercial and Financial Chronicle Bankers Gazette, Commercial Times, Railway Monitor and Insurance Journal** ,1910      **The Compact Edition of the Oxford English Dictionary** Sir James Augustus Henry Murray,1971 Micrographic reproduction of the 13 volume Oxford English dictionary published in 1933

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