

2021 IACS SENIOR HIGH ACADEMIC TESTING – DETAILS BY SUBJECT AREA

ACCOUNTING

1. The first test will center upon theory and transactions, the second upon terminology, and the third upon short problems.
2. The examination will consist of questions which may be drawn from any of these topics: special journals, cash short and over, bank reconciliations, correcting checkbook balances, recording transactions, classification of accounts, adjusting and closing entries, worksheet, cost of goods sold, combination journals, estimating bad debts, losses and depreciation, recording bad debts, recording accruals and deferrals, financial statements.

ADVANCED MATHEMATICS

The examination will consist of questions covering:

- a. Trigonometry
- b. Analytical Geometry
- c. Permutations, Combinations, and Probability
- d. Pre-Calculus
- e. Theory of Equations
- f. Sequences and Series
- g. Statistics
- h. Limits
- i. Advanced Algebra
- j. Function Analysis
- k. Matrix Algebra
- l. Vectors
- m. Complex numbers

ALGEBRA I AND ALGEBRA II/GEOMETRY

The examination will consist of questions covering:

- a. Algebra I (will be in the Algebra I test only)
- b. Algebra II
- c. Geometry

BIOLOGY

The examination will consist of questions covering:

- a. Cells
- b. Protozoa
- c. Algae and fungi
- d. Plants
- e. Genetics
- f. Vertebrate and invertebrate physiology
- g. Human anatomy
- h. Fossils

CHEMISTRY

The examination will consist of questions covering:

- a. Matter and energy
- b. Atoms
- c. Formulas and equations
- d. Gases, liquids, and solids
- e. Periodic table families
- f. Equilibrium
- g. Chemistry laws
- h. Acids and bases
- i. Metric units
- j. Scientific methods
- k. Chemical bonding

ENGLISH

1. The examination will consist of questions covering:

- a. Grammar and usage: eight parts of speech, phrases, clauses, agreement, etc.
- b. Vocabulary in context and spelling recognition
- c. Mechanics: capitalization and punctuation
- d. Library: research techniques, bibliography, footnote forms
- e. Diagramming

2. No composition will be required.

3. No questions pertaining to literature will be asked.

HOME ECONOMICS

The examination will consist of questions covering:

- a. Food and nutrition
- b. Clothing
- c. Housing and home furnishings

MUSIC THEORY

1. Objectives for the test will include the following:

- a. Major and minor key signatures
- b. Major and minor scales
- c. Harmony
- d. Part-writing
- e. Figured bass
- f. Cadences
- g. Rhythm and time signatures

2. The test does not include melodic dictation or aural recognition.

NEW TESTAMENT BIBLE KNOWLEDGE

Competition in this category will be by written examination, testing knowledge of factual or objective material (rather than interpretive) from pre-assigned New Testament books.

SPECIFIC RULES:

1. No Bibles, reference materials, notes, or study guides will be allowed in the testing room.
2. Each student will be expected to provide his own pencils.
3. The cycle by school year is as follows:
 - 2020-2021 Mark, Acts
 - 2021-2022 Romans, I Corinthians
 - 2022-2023 II Corinthians, Galatians, Ephesians
 - 2023-2024 Philippians, Colossians, I & II Thessalonians, I Timothy
 - 2024-2025 II Timothy, Titus, Philemon, Hebrews, James
 - 2025-2026 I & II Peter, I, II, & III John, Jude, Revelation

OLD TESTAMENT BIBLE KNOWLEDGE

Competition in this category will be by written examination, testing knowledge of factual or objective material (rather than interpretive) from pre-assigned Old Testament books.

SPECIFIC RULES:

1. No Bibles, reference materials, notes, or study guides will be allowed in the testing room.
2. Each student will be expected to provide his own pencils.
3. The cycle by school year is as follows:
 - 2020-2021 Genesis
 - 2021-2022 Joshua, Judges
 - 2022-2023 I & II Samuel
 - 2023-2024 Proverbs
 - 2024-2025 Isaiah
 - 2025-2026 Nehemiah, Daniel, Jonah

PHYSICS

The examination will consist of questions covering:

- a. Motion & Energy
- b. Metric Units
- c. Light
- d. Electricity
- e. Heat
- f. Magnetism
- g. Physics laws
- h. Sound

POLITICAL SCIENCE/ECONOMICS

The examination will consist of questions covering:

- a. General principles of political science, including the nature and historical development of the various types or forms of governments in the world
- b. Specific test on the nature and historical development of the United States government
- c. General principles of free enterprise economic theory

SPANISH

The examination will consist of questions covering:

- a. Grammar and usage
- b. Vocabulary
- c. Conjugation and agreement
- d. Spanish-to-English translation and English-to-Spanish translation

UNITED STATES HISTORY/GEOGRAPHY

The examination will consist of questions covering:

- a. United States History
- b. United States Geography

WORLD HISTORY/GEOGRAPHY

The examination will consist of questions covering:

- a. World History
- b. World Geography