

GATA State Tournament
March 18-19, 2005
Round 2

Tossup 1. Identify the branch of chemistry which includes all substances except those such as hydrocarbons, which contain carbon.

Answer: **Inorganic Chemistry**

Tossup 2. A work in the key of C, it debuted in 1800 in Vienna. Dedicated to Gottfried von Swieten, it was only about half an hour long. Identify this work, which would be followed by eight more.

Answer: **Beethoven's 1st Symphony (accept equivalents)**

Tossup 3. This city on the Dnieper River was the capital of the first medieval Russian state. Identify this city, which is now the capital of the Ukraine.

Answer: **Kiev**

Tossup 4. You will have 15 seconds to answer this question. Find the slope of the line containing the two ordered pairs (3, 2) and (-4, 3).

Answer: **-1/7**

Tossup 5. It contains the cytoplasm and the nucleus. Identify this term, the total content of a living cell.

Answer: **Protoplasm**

Tossup 6. Identify the British political philosopher who wrote *Reflections on the Revolution in France*.

Answer: **Edmund Burke**

Tossup 7. In what Shakespearean play does Egeus's daughter, Hermia, fall in love with Lysander?

Answer: ***A Midsummer Night's Dream***

Tossup 8. The 1848 slogan "General Taylor Never Surrenders" refers to an incident in what war?

Answer: **Mexican War**

Tossup 9. Her father initially tried to forbid her from becoming an artist. However, she persevered and is now considered one of history's greatest impressionists. Identify this American painter of *The Bath*.

Answer: **Mary Cassatt**

Tossup 10. According to legend, this man planted the teeth of dragons and founded the city of Thebes. Name him.

Answer: **Cadmus**

Tossup 11. A basic belief asserted in this work is that while all knowledge originates with experience, it does not always come from experience. Also, experience may only confer comparative universality to its judgments, as by induction. For example, space and time are not the products of empirical knowledge, but exist as a consequence of the author's "Axioms of Intuition." Proposing through the use of transcendental logic that philosophy is based on "a priori" knowledge by determining its extent is - for 10 points - what "Critique" of Immanuel Kant.

Answer: **Critique of Pure Reason**

Bonus 11. Identify the authors who created the following fictional places.

a) Narnia

Answer: **C.S. Lewis**

b) Shangri-La

Answer: **James Hilton**

Tossup 12. It is calculated by subtracting the product of temperature and energy change from the change in enthalpy in a given system. The quantity of energy available for doing useful work is - for 10 points - what "free energy" symbolized by the letter "g"?

Answer: **Gibbs Free Energy**

Bonus 12. Identify the following concerning astronomy.

a) A star too big to become a dwarf but too small to become a black hole usually becomes one of these. They are named for the particle they emit.

Answer: **Neutron Star**

b) When a white dwarf star stops radiating, it is appropriately called this.

Answer: **Black Dwarf**

Tossup 13. At about 400 miles long and 150 wide, the natives of this island were wiped out by the Spanish, who in turn resettled the island along with their African slaves. In the late 18th century, these slaves revolted and claimed the entire island for themselves after winning their independence in 1804. For 10 points, identify this island on which Columbus first landed in 1492, the home of Haiti and The Dominican Republic.

Answer: **Hispaniola**

Bonus 13. Identify the world cities in which the following airports are located.

a) Hartsfield-Jackson

Answer: **Atlanta**

b) O'Hare

Answer: **Chicago**

Tossup 14. You will have 15 seconds to answer this question. For 10 points, find the number of distinguishable permutations in the word "Ohio."

Answer: **12**

Bonus 14. You will have 15 seconds to answer each part. Solve the following.

a) A music store wants to display three identical violins, two identical clarinets, and two identical mandolins in its store window. How many total displays are possible?

Answer: **210**

b) A restaurant serves omelets with a choice of six vegetarian ingredients and four meat ingredients. Suppose you wanted exactly two vegetarian ingredients and one meat ingredient in your omelet. How many different types of omelet could you order?

Answer: **60**

Tossup 15. Soon after being born, he lived at Mount Helicon. There he created two fountains, Aganippe and Hippocrene, which were said to inspire those who partook of the waters to write great poetry. One day while drinking from the fountain of Peneus in Corinth, he was subdued and taken on a quest to kill the Chimera. For 10 points, identify this steed of Bellerophon who was born of Medusa's blood.

Answer: **Pegasus**

Bonus 15. Identify the founders of the following religions, denominations, or sects.

a) Mormonism

Answer: **Joseph Smith**

b) Zoroastrianism

Answer: **Zoroaster**

Tossup 16. Influenced by Claude Monet and Eugene Delacroix, this painter studied at the academy of Swiss artist Charles Gabriel Gleyre in Paris from 1862 to 1863. His works include *Girl with Watering Can*, *The Bathers*, *The Dance at Bougival*, and *The Umbrellas*. And, although *not* Fragonard, he did create a painting known as *The Swing*. For 10 points, identify this French Impressionist of *The Luncheon of the Boating Party*.

Answer: **Pierre Auguste Renoir**

Bonus 16. Complete the titles of these paintings by J.M.W. Turner.

a) *The {blank} Ship*

Answer: **Slave**

b) *Snowstorm: {blank} Crossing the Alps*

Answer: **Hannibal**

Tossup 17. Born in Greece, he stood out in military school and he fought in the Gallipoli campaign in World War I, helping defeat the allies. When the British, French, and Italian troops came to Anatolia, he incited the people against them. When the Turkish republic was established in 1932, he took his new name and led to the Westernization of his new country. For 10 points, identify the founder of modern Turkey whose name means “father of the Turks.”

Answer: **Mustafa Kemal Ataturk**

Bonus 17. Identify the following concerning the Dred Scot case.

a) What Chief Justice presided?

Answer: **Roger Taney**

b) Who was the owner who took Scot into a free territory?

Answer: **John Emerson**

Tossup 18. Appearing as a group of paired membranes which constitute a number of flattened sacs known as cisternae, it is present in cytoplasm. It is responsible for such specialized secretions as cell wall materials in plants. For 10 points, identify this cell organelle that packages large molecules for transport which is named for its Italian discoverer.

Answer: **Golgi apparatus or body**

Bonus 18. Give the chemical formulas for the following. Include parenthesis where needed.

a) Cupric perchlorate

Answer: **Cu(ClO₄)₂** (Cu open paren Cl O 4 close paren 2)

b) Ammonium dichromate

Answer: **(NH₄)₂Cr₂O₇** (open paren N H 4 close paren two Cr 2 O 7)

Tossup 19. His comic opera *Gloriana* was written for the coronation of Queen Elizabeth II. Other works, such as *The Turn of the Screw* and *Billy Budd*, were based on popular literary works. His 1945 opera, *Peter Grimes* established him as a leading operatic composer. For 10 points, identify this British composer of *A Young Person's Guide to the Orchestra*.

Answer: **Benjamin Britten**

Bonus 19. Identify the composers of the following symphonic works.

a) *Bolero*

Answer: **Maurice Ravel**

b) *The Clock Symphony*

Answer: **Franz Josef Haydn**

Tossup 20. His most famous novel is part of a series that also includes titles such as *Streets of Laredo* and *Dead Man's Walk*. Born in Wichita Falls, Texas, his novels often focused on the American West – such as in *Comanche Moon*. For 10 points, identify this author of *Terms of Endearment* and *Lonesome Dove*.

Answer: **Larry McMurtry**

Bonus 20. Identify the following from World Literature.

a) Ellen Glasgow wrote about this Virginia city, although she referred to it as “Queensborough”

Answer: **Richmond**

b) “My mother is a fish” is the entire text in the shortest chapter of this Faulkner work

Answer: **As I Lay Dying**

TIE BREAKERS

TIEBREAKER 1. It was this man, not James Fenimore Cooper, who first introduced Native Americans into American Literature. His works include six Gothic novels – including *Ormond*, *Clara Howard*, and *Edgar Huntley*. The title of his most famous one, however, happens to be the last name of the singer of Stone Temple Pilots and Velvet Revolver. Considered the first professional American author is – for 10 points – what author of *Wieland*?

Answer: **Charles Brockden Brown**

TIEBREAKER 2: This author was born in 1923 in Long Branch, New Jersey. His first short story, “The Greatest Thing in the World” was published in the Harvard Advocate. For 10 points, name this cofounder of The Village Voice, and author of *The Naked and the Dead*, *Armies of the Night*, and *The Executioner's Song*.

Answer: **Norman Mailer**