

#### Round 4

Questions by Amherst and Williams

Amherst: Brett Harsch, Steve Vladeck, and Peter Beardsley

Williams: Joe Busnengo, Lydia Haile, David Rosenblum, Caleb Fassett, Joel Iams

#### TOSSUP 1 – Fine Arts (Graphic)

**His early works were mainly landscapes such as Castrovalva. However, he eventually utilized his knowledge of lithographs, woodcuts, and mezzotints (\*) to create his own scenes demonstrating bizarre spatial effects. Some of this Dutch graphic artist's better known works include Relativity, House of Stairs, Waterfall, and FTP Ascending and Descending, which features a staircase that meets itself.**

ANSWER: M[aurits] C[ornelis] Escher

#### TOSSUP 2 – Science (Chemistry)

**The Clausius Theorem states that for any cyclic process, the line integral of the (\*) heat exchanged with the environment divided by the temperature is less than or equal to zero. The difference is zero only if the process is reversible. FTP, what physical quantity, roughly analogous to the “disorder” of the system is constrained to never decrease by this theorem?**

Answer: entropy (also accept Second Law of Thermodynamics before “physical quantity”)

#### TOSSUP 3 – Literature

**This poet was one of the characters in Tom Stoppard's play *Arcadia*. In response to harsh criticism of his first book of poems, (\*) he wrote the satirical *English Bards and Scotch Reviewers*. Other important works include the dramatic poem *Manfred* and the long poem *Childe Harold's Pilgrimage*. Although he was killed before he could finish it, his epic poem *Don Juan* (JOO-un) is considered his masterpiece. FTP name this Romantic poet.**

Answer: George Gordon, Lord Byron (accept either underlined answer)

#### TOSSUP 4 – Miscellaneous

[I would recommend reading this to yourself before reading it aloud. The fourth title sounds much better when pronounced with the appropriate rhythm...]

**"It Takes a Village", "Secret Asian Man", "Don't Cry For Me(\*), Judge Scalia",**

**"Supercallousmeanandnastyrightwinglegislation" [Super-callous-mean-and-nasty-right-wing-legislation], and**

**"Middle-Aged Lady Named Janet Reno" are all, FTP, songs performed by what satirical group composed entirely of current and former congressional staffers?**

ANSWER: The Capitol Steps

#### TOSSUP 5 – History (American)

**The justice who wrote the opinion in this Supreme Court case could not have been impartial: in his previous position as Secretary of State, (\*) he signed the document at issue, then charged his brother with its delivery.**

Despite this and other irregularities, however, this case is highly influential, regularly providing the basis for modern rulings. FTP, name this case, decided in 1803 by Chief Justice John Marshall, which established the doctrine of judicial review.

ANSWER: Marbury v. Madison

#### TOSSUP 6 – Science (Math)

**The branch of mathematics concerned with these was inspired by Lord Kelvin, who believed that atoms were simply vortices within the ether in the shape of these. Mathematically defined as an embedding of the circle in  $R^3$ , (\*) they have important applications in the fields of DNA and statistical mechanics. FTP, name these objects, common types of which include square, slip and bowline.**

ANSWER: Knots

TOSSUP 7 – Literature (Short fiction):

**On the day that the Spanish-American war began, he was sentenced to prison for embezzling. He skipped bail to live in South America, which inspired the Coralio stories he used in (\*) Cabbages and Kings, but he came back because his wife, Athol, was dying. He worked in the pharmacy of the prison where he ended up, and may have gotten his pseudonym from one of the guards there. FTP, name this author of *The Gift of the Magi*.**

ANSWER: O. Henry (or William Sydney Porter)

TOSSUP 8 – Religion

**Although it's often called an allegory of Christ's love for the church, nowhere does it mention God or Christ. Scholars now think that it's a collection of (\*) Hebrew love songs, included in the Bible to celebrate human love. FTP, name this book of the Bible, origin of the verse "my beloved is mine and I am his."**

ANSWER: The Song of Songs, which is Solomon's. (or Canticle of Canticles, or Song of Solomon)

TOSSUP 9 – Science (Biology)

**They are masses of lymphoid cells embedded in fibrous connective tissue covered by a single layer epithelium. The cells are (\*) phagocytic and destroy disease-producing bacteria. They are easily infected by streptococcus bacteria, producing inflammation and pus formation. For ten points, name these human cell masses ringing the walls of the pharynx which are often removed in children to avoid chronic infection.**

Answer: tonsils

TOSSUP 10 – Pop Culture (Sports)

**From 1970 to 1979 an award was made in each conference; recipients included Chuck Foreman and Bobbie Clark for 1972. The first was given in 1956 (\*) to Charley Taylor. No one has ever won twice—or ever will—though Marino won in 1983 and Barry Sanders won in 1989, the first year they were eligible. FTP, what is this professional football award made each year by The Sporting News to a deserving neophyte?**

Answer: Rookie of the Year

TOSSUP 11 – Geography

**This city, the second largest in central Europe, is home to approximately one fifth of its nation's people. A small city until the 19th century, it grew by 900% from 1840 to 1918(\*). The first Continental subway system was introduced in this city, some twenty years after its unification in 1873. FTP, name this capital city consisting of two parts joined by bridges across the Danube, the administrative center of Budai district and Pest (PESHT) county.**

ANSWER: Budapest

TOSSUP 12 – Literature (Poetry):

**"Here with a Loaf of Bread beneath the Bough/A Flask of Wine, (\*) a Book of Verse—and Thou/Beside me singing in the Wilderness—/And Wilderness is Paradise now." So goes one of the stanzas of this poem, translated into English in 1859 by Edward Fitzgerald. FTP, name this poem originally written in Persian by Omar Khayyam.**

ANSWER: The Rubaivat of Omar Khayyam

TOSSUP 13 – History (Non-Western):

**This country signed the bilingual Treaty of Ucciali without realizing that the Italian text differed from the (\*) Amharic text and gave the Italians a legal protectorate over itself. Luckily, its king Menelik II rallied an army and defeated the Italians at Aduwa in 1896. FTP, which country ended its brief Italian war with the Treaty of Addis-Ababa?**

Answer: Ethiopia accept: Abyssinia

TOSSUP 14 – Social Science (Economics)

**While giving lectures at the University of Edinburgh, he developed a close association with David Hume. A professor of moral philosophy, (\*) he was influenced by many physiocratic philosophers during a trip to the Continent and demonstrated this in his subsequent works. FTP, name this man who made a famous example of pin factories in *An Inquiry into the Nature and Causes of the Wealth of Nations*.**

ANSWER: Adam Smith

TOSSUP 15 – Literature

**It has two inscriptions: one from Oscar Wilde, and one from Rupert Brooke which ends "There's little comfort in the wise," and from which its title is taken. It concerns a so-called romantic (\*) egotist who gradually matures into a personage through his experiences at St. Regis' Prep and Princeton. FTP, name this novel about Amory Blaine, which propelled its author to fame at the age of 23 and launched the literary career of Scott Fitzgerald.**

Answer: This Side Of Paradise

TOSSUP 16 – Current Events

**Located in Africa's third largest city, this will open sometime next year. The building that houses it was designed by a (\*) Norwegian firm to imitate the rising sun. It will have over 4 million works and will be open to all visitors. FTP name this library that replaces the one lost into the sea over 2000 years ago.**

Answer: Bibliotheca Alexandrina accept: Library of Alexandria

TOSSUP 17 - History

**Formulated in 1713, it was eventually accepted by the electors of Saxony and Bavaria, Russia, Spain, Great Britain, France, Prussia, the Netherlands, Denmark, and Sardinia. Intended to ensure a prominent (\*) exception to the Salic Law, nevertheless, on the death of Charles VI in 1740, Prussia and Bavaria did contest it. FTP, name this document meant to guarantee Maria Theresa's accession to the Hapsburg lands.**

ANSWER: Pragmatic Sanction

TOSSUP 18 – Fine Arts (Sculpture)

**His Athena was valued more for the cost of her gold decorations than for her artistic merit, so it's not surprising that nobody objected much when he put his face on her shield. His Zeus, however (\*) was a wonder of the ancient world. FTP, name this great Greek sculptor, whose work decorates the pediments of the Athenian Parthenon.**

ANSWER: Phidias (PHIH-dee-ass)

TOSSUP 19 – Mythology

**She killed her younger brother Absyrtus and threw the fragments (\*) overboard to prevent her father from returning her and her treasure to Colchis. She also killed her husband's evil uncle Pelias, sent a poisoned robe to her husband's new wife Creusa, slew their children, set fire to the palace, and fled. FTP, who is this Greek sorceress who fell in love with Jason and allowed him to steal the Golden Fleece?**

Answer: Medea

TOSSUP 20 – Current Events

**He managed Tom DeLay's campaign for Republican whip in 1994 and became his chief deputy. He declined a nomination for House (\*) Majority Leader in 1998, but received several write-in votes. Shortly after that election, he became the consensus choice to replace Bob Livingston. FTP, who succeeded Newt Gingrich as House Speaker?**

answer: J[ohn] Dennis "Denny" Hastert

TOSSUP 21 – Science (Physics)

**He insisted at one point that "the only science is physics; everything else is butterfly-collecting"; imagine his dismay at winning a Nobel Prize in Chemistry. (\*) He was working at Cambridge with Hans Geiger and Ernest Marsden, when Marsden noticed a peculiar result: the observed large-angle scattering of the alpha particles was greater than predicted by theory. FTP, what physicist explained the results of his gold-foil experiment by postulating the existence of the nucleus?**

ANSWER: Sir Ernest Rutherford

TOSSUP 22 – History (European)

**First gaining independence in the nineteenth century, this largely Catholic country was established as a constitutional monarchy. It built the first railroad line on the Continent in 1835, and was among the first countries to follow Britain into the (\*) Industrial Revolution. It attempted to maintain neutrality in both World Wars, but both times had it violated. After World War II, it was a founding member of the EEC. FTP, name this deeply divided European country known for its chocolate, beer and waffles.**

ANSWER: Belgium

TOSSUP 23 – Fine Arts (Music)

**This man was exiled from his homeland for twelve years due to his participation in revolutionary activities and association with Mikhail Bakunin. However, in 1862 he was able to return to(\*) Germany. After being assisted for a time by Ludwig II of Bavaria, this composer designed a new theatre in Bayreuth specifically for his operas. FTP, name this creator of *Lohengrin* and the Ring cycle.**

ANSWER: Richard Wagner

TOSSUP 24 – Popular Culture (Sports)

**He was a first-team all star from 1968-75, captured the league scoring title twice, and won the Stanley Cup twice, while a member of the (\*) Boston Bruins. His other accomplishments include being rookie of the year and winning the Norris Trophy in eight consecutive years. FTP, name this hockey great, who transformed the role of the defenseman.**

ANSWER: Bobby Orr

TOSSUP 25 — Philosophy

**Born in 1844, this philosopher provokes strong emotions to this day. A precursor of Existentialism, his works include a collection of essays entitled (\*) *The Will to Power*, which propound his theories of a departure from metaphysical explanations to life. FTP name this author of *Beyond Good and Evil* and *On the Genealogy of Morals* famous for saying, "God is dead."**

Answer: Friedrich Wilhelm Nietzsche

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BONUS 1 – Popular Culture

30-20-10, Name the movie.

[30] This film was rewritten daily during filming, made on a shoestring budget, hastily released, and expected to bomb. Actress Hedy Lamarr turned down a leading role in it, not wanting to work with an unfinished script.

[20] Despite low expectations, time was on the side of this 1942 film. About three weeks before its release, Allied forces landed in the African city where it takes place, creating widespread interest. It went on to be nominated for eight Academy Awards.

[10] In this film, starring Humphrey Bogart and Ingrid Bergman, nobody ever said, "Play it again, Sam."

ANSWER: Casablanca

BONUS 2 – Literature

Answer the following questions about the great Indian epic poem, the Mahabharata FTPE.

a. The narrative portion of the poem concerns the struggle between two sides of the same family. Name either.

Answer: Pandavas Accept Kauravas

b. The most famous section of the poem concerns advice given to a member of the Pandava family by an avatar of Vishnu; name this section of the poem

Answer: Bhagavad Gita Accept: Song of God

c. Now name the man who receives the advice.

Answer: Arjuna

BONUS 3 – Science (Physics)

Two one-ohm resistors are linked in series with a six-volt EMF. Answer the following questions about this setup for ten points apiece.

a. An ideal voltmeter is connected in series between the two resistors. How many volts does it read?

Answer: 6 volts

b. An ideal ammeter is connected in series between the two resistors. How many amps does it read?

Answer: 3 amperes

c. An ideal ammeter is connected in parallel around the first resistor. How many amps does it read?

Answer: 6 amperes

BONUS 4 – Fine Arts (Painting)

Victorine Meurent (VIK-tore-eeen Murr-ay) was an artist's model for Manet and, later, a somewhat successful painter herself. For the stated number of points, name these paintings she appeared in from a description:

A) For ten points: Victorine is naked, sitting on her blue dress. Two fully clothed men sit on the grass with her, and a woman in her shift is wading in the background.

ANSWER: The Luncheon on the Grass (or Le Déjeuner sur l'Herbe)

B) For ten points: Victorine is lying down, naked but for a red flower in her hair. A spitting cat stands at her feet and her maid is bringing her a large bunch of flowers wrapped in paper.

ANSWER: Olympia

C) For ten points: Victorine, for once, is dressed. She's wearing a black hat and staring out at the viewer. A little girl in a white dress with a blue sash is standing next to her, her back to the viewer, hanging onto an iron fence.

ANSWER: The Railroad (or Gare St. Lazare)

BONUS 5 – Geography

Identify the following capes of the world FTPE.

a. Located near Dakar, Senegal, this cape marks the westernmost point of Africa and has lent its name to a group of islands and their country.

Answer: Cape Verde

b. Located in Portugal, this is the southwestern most point of the European continent.

Answer: Cape St. Vincent

c. The southernmost cape in South Africa is not the Cape of Good Hope, but this other cape.

Answer: Cape Agulhas

BONUS 6 – History (European)

Identify the following nineteenth century European battles for ten points apiece.

a. Emperor Napoleon III and 100,000 of his troops were captured at this September, 1870, battle.

Answer: Sedan

b. Fought on September 7, 1812, both the French and Russians had enormous casualties, prompting Napoleon to call it, "The most terrible of all my battles." Napoleon occupied Moscow, but had to retreat at the onset of winter.

Answer: Borodino

c. Fought in Bohemia on July 3, 1866, this major battle of the Austro-Prussian War was the decisive victory for Prussia.

Answer: Sadowa Accept: Koniggratz

BONUS 7 – Pop Culture (Sports)

Identify the following track and field stars for ten points each.

a. In 1979, he ran the 200 meter race in 19.72 seconds, a world record held until shattered by Michael Johnson in 1996.

Answer: Pietro Mennea

b. Running for Finland, he won gold medals at the 1924 Olympic Games in the 1,500meter, 3000 meter, 10000 meter cross-country, 3000 meter team, and cross-country team events. The five gold medals are the most for any track and field athlete at one Olympic Games.

Answer: Paavo Johannes Nurmi

c. Despite dominating the pole vault event for the last decade, he managed to win only one Olympic gold medal, at Seoul in 1988.

Answer: Sergey Nazarovich Bubka

BONUS 8 – Social Science (Economics)

Answer the following questions about a famous anthropologist for ten points apiece.

a. Name the long-time professor of anthropology at the London School of Economics whose works include *Magic, Science, and Religion* and *Myth in Primitive Psychology*.

Answer: Bronislaw Malinowski

b. Malinowski is most famous for his work with the natives of a group of islands which are part of Papua New Guinea. Name those islands.

Answer: Trobriand Islands

c. Of what school of anthropology was Malinowski a founding member?

Answer: functionalism

BONUS 9 – Science (Chemistry)

Given the definition, name the principle of chemistry, FTPE.

A) At constant temperature, the volume of a gas is inversely proportional to its pressure.

Answer: Boyle's Law

B) The rates of diffusion of two gases are inversely proportional to the square roots of their densities.

Answer: Graham's Law

C) Gases react with one another in small, whole-numbered ratios by volume if the volumes are measured at the same temperature and pressure.

Answer: Gav-Lussac's Law

BONUS 10 – Literature

Identify the 20th century author from a list of his works, FTPE.

A) *Chrome Yellow*, *Point Counterpoint*, *Island*

ANSWER: Aldous Huxley

B) *Down and Out in Paris and London*, *Burmese Days*, *Homage to Catalonia*

ANSWER: George Orwell or Eric Arthur Blair

C) *The Island of the Day Before*, *Foucault's Pendulum*

ANSWER: Umberto Eco



BONUS 11 – Current Events

In October, the Senate rejected President Clinton's nominee for a federal district judgeship, a judge on the Missouri Supreme Court. FTPE:

A. Name the judge.

answer: Ronnie **White**

B. Now, name either of Missouri's two Republican U.S. Senators, who opposed White's nomination and were accused of racism.

Answer: John D(avid) **Ashcroft**

Christopher S(amuel) "Kit" **Bond**

C. White was the first judicial nominee to be rejected by the Senate since 1987. Whom did the Senate reject, 58-42, that year?

Answer: Robert H(eron) **Bork**

BONUS 12 – History (Non-Western)

Answer the following questions about the short-lived African republic of Biafra for ten points apiece.

a. From which country did Biafra break away only to be recaptured three years later?

Answer: **Nigeria**

b. Name any year during which the Republic existed.

Answer: **1967-1970**

c. Biafra seceded primarily because of the discovery of oil at Port Harcourt, but it also served the nationalist aims of its majority people. What tribe is that?

Answer: **Ibo**

BONUS 13 – Fine Arts (Music)

Richard Strauss was a famous German composer. For ten points each, given the work, name these other Strauss's.

A. *The Beautiful Blue Danube*

Answer: **Johann** Strauss, the **Younger** (or Junior, or equivalent)

B. *The Chocolate Soldier*

Answer: **Oscar** Strauss

C. *The Viennese Waltz*

Answer: **Johann** Strauss, the **Elder**

BONUS 14 – Science (Astrophysics)

The Galaxy is home to some truly interesting phenomena. Given a description of an object, give its name, FTPE.

A) A thermonuclear furnace, it remains in a state of hydrostatic equilibrium, balancing the heat generated in the core with the gravitational pressure of its huge mass, all the while fusing hydrogen into helium.

ANSWER: **Main-Sequence Star** (prompt on "star")

B) These spherical groupings of stars are usually found in the galactic halo, and have chemical abundances different from stars in the disk. A notable example is in the constellation Hercules, called the "Jewel Box".

ANSWER: **Globular Cluster**

C) These objects were classified as LGMs, meaning "little green men", when first discovered by Bell and Hewish, but have since been explained as rotating neutron stars, ejecting a beam of radio emission from their poles that sweeps across the sky in the so-called "lighthouse effect".

ANSWER: **Pulsar**

#### BONUS 15 – Philosophy

Name these philosophical movements for ten points apiece.

a. An offshoot of the Platonic academy, this branch of philosophy claimed that it was impossible to attain certain knowledge, and all one can do is assess probabilities. Although the school was founded by Arcesilaus and Carneades, the movement goes back to Pyrrho.

Answer: skepticism

b. It began with a circle of Viennese philosophers who argued that a statement could be considered meaningful (much less true) unless it could be empirically verified or falsified.

Answer: logical positivism Prompt: positivism

c. Some have accused logical positivism and skepticism of degenerating into this non-philosophy in which the self can be aware only of itself.

Answer: solipsism

#### BONUS 16 – History (US)

30-20-10-5, Name the American President

[30] Native to New Jersey, he also owned a summer house on Cape Cod, in the town of Bourne.

[20] He is quoted as having said, "If it takes the entire army and navy to deliver one postcard in Chicago, that card will be delivered," when dealing with railroad strikers that had violated an injunction against striking.

[10] He was the first Democrat elected to the Presidency after the Civil War.

[5] He was the only President to have served non-consecutive terms, serving as both the 22<sup>nd</sup> and the 24<sup>th</sup> President.

ANSWER: Stephen Grover Cleveland

#### BONUS 17 – Fine Arts (Painting)

Given some of his works, name the painter, for the stated number of points.

A) F5P, *The Rake's Progress*

ANSWER: William Hogarth

B) F5P, *The Sleeping Gypsy*, *The Dream*

ANSWER: Henri Rousseau (prompt on "Rousseau" or "Le Douanier," his nickname)

C) FTP, *Son of Man*, *Ceci n'est pas un pipe*.

ANSWER: Rene Magritte

D) FTP, *Boatbuilding near Flatford Mill*, *Hay Wain*.

ANSWER: John Constable

#### BONUS 18 – Literature

Name the Dickens novel from a short list of characters for ten points each.

a. Dr. Alexander Manette, Lucie Manette, Stryver

Answer: A Tale of Two Cities

b. Barkis, the Peggotty family

Answer: David Copperfield

c. Susan Nipper, Mr. Toots, Walter Gay

Answer: Dombey and Son

#### BONUS 19 – Science (Biology)

Identify the following scientists important in the development of modern evolutionary biology for ten points apiece.

a. This Columbia university professor studied the genetics of the fruit fly and is credited with the discovery that DNA carries genetic information. A unit of length of DNA strands is named for him.

Answer: Thomas Hunt Morgan

b. This Dutch biologist was the first to observe and study genetic mutations.

Answer: Hugo de Vries

c. The modern "synthetic" theory which harmonized genetics and evolution is generally attributed to three biologists, two Americans and one Briton. Name the Brit.

Answer: Julian Huxley



BONUS 20 – Current Events (Politics)

Conservatives are faced with many options in the upcoming Republican primaries. Name the following politicians seeking the nomination for ten points each.

a. This former Senate candidate from Maryland with a Ph.D from Harvard is known for his public speaking ability, but has little chance to win.

Answer Alan Keves

b. This native of Newport, Kentucky touts his background as a janitor's son in his attacks on Steve Forbes' flat tax.

Answer Gary Bauer

c. This candidate, who recently dropped out, tried to play the "favorite son" role in both Arizona and Indiana.

Answer Dan Quavle

BONUS 21 – Geography

Saint Petersburg, Petrograd, Leningrad. Saint Petersburg is only one of many Russian cities with an identity crisis. FTPE, given a Soviet-era name of a Russian city, give its modern name.

A) Stalingrad

ANSWER: Volgograd

B) Gorky

ANSWER: Nizhny Novgorod [NEEZH-nee NOV-gor-ud]

C) Sverdlovsk

ANSWER: Yekaterinburg [yee-ka-te-REEN-burg]

BONUS 22 – Literature (Drama)

Identify the play set in ancient Greece from a short plot description F15P. You'll only get 5 if you need the author..

A) [10] The Thebans are punished with madness for resisting Dionysos. Pentheus's (PEN-thee-uss) female relatives rip him to pieces for spying on their mysteries.

[5] Euripides

ANSWER: The Bacchai

B) [10] Pandarus brings the title lovers together, despite their being on opposite sides of the Trojan War. However, there are no serious aftereffects; the woman soon swears undying love to someone else.

[5] William Shakespeare

ANSWER: Troilus and Cressida

BONUS 23 – Mythology

FTPE, five if you need a clue, name the three sons of Europa.

A) [3 x 10] [No clue. Do not provide missed answers. For parts B, C & D, only read the clues whose answers have not yet been correctly given.]

ANSWER: Minos

Rhadamanthys [rad-uh-MAN-thuhs]

Sarpedon [sahr-PEE-duhn]

B) [5] He united Crete and was such a fair judge that he became a judge in Tartarus after his death.

ANSWER: Minos

C) [5] He helped Minos, and married the mother of Heracles, Alkmene.

ANSWER: Rhadamanthys

D) [5] Minos exiled him from Crete, so he sailed off and fought in Troy. He was the only one of the brothers who didn't become a judge of the dead, but Zeus wanted to save him as he fought in the Trojan

War.

ANSWER: Sarpedon