Tournament 42
Round 1
Tossups

1. In one section of this book, the author sees a collection of 'Famous Orator" and realizes it is a sign that he is a long-winded speaker. In another section of this book, doctors notice that a woman received treatment with an unclean syringe. One of the title phenomena described in this book is (*) "Irma's Injection." In this book, the author claims that a woman's hat represents the male genitalia and theorizes that the title phenomena are wish fulfillments. For 10 points, name this Sigmund Freud book which examines what the unconscious mind thinks of while sleeping.
ANSWER: The Interpretation of Dreams [or Die Traumdeutung]
2. In one movie set in this city, Steve Martin plays a weatherman who receives dating advice from an apparently-magic freeway sign. In another film set in this city, Kevin Spacey plays a cop killed by his boss, James Cromwell, who is trying to take over its drug business after the conviction of Mickey Cohen. Aaron Eckhart starred in a (*) 2011 film as a Marine trying to protect this city from an alien invasion; that film was titled Battle: this city. For 10 points, name this California city that contains the district of Hollywood.
ANSWER: Los Angeles [or L.A.]
3. In a novel by this author, Clotilde de Marelle assists in the social climbing of her lover, the journalist Georges Duroy. This author wrote about Elizabeth Rousset, who is rejected by other passengers after sleeping with a Prussian officer to help them escape. In a story by this author of (*) Bel Ami, Mathilde Loisel and her husband labor for ten years after losing the title borrowed jewelry, which turns out to have been a fake. For 10 points, name this French author of short stories like "Ball of Fat" and "The Necklace."
ANSWER: Guy de Maupassant
4. Aside from the three points collinear with the massive bodies, there are this many Lagrange points for a planet-sun system. The differential equation for a harmonic oscillator is of this order. The n-body problem is solvable for $n$ less than or equal to this number, and taking the derivative of position this many times yields $\mathbf{~}^{*}$ ) acceleration. The force of gravity is inversely proportional to this power of the distance. For 10 points, identify this number of charges in a dipole. ANSWER: two [accept other forms like twice or second, accept square]
5. This author wrote about an affair between Richard Cantwell and Renata in his novel Across the River and Into the Trees. Marjorie goes fishing in a small boat in Horton Bay, Michigan with Nick Adams in his story "The End of Something." He also wrote about Robert (*) Jordan blowing up a bridge during the Spanish Civil War in For Whom the Bells Tolls. For 10 points, name this American author of The Sun Also Rises and A Farewell to Arms.
ANSWER: Ernest Hemingway
6. This philosopher wrote that "there is no first principle of criticism" and that philosophy must begin 'in medias res." He defined the title concept of one of his books as a non-rational belief in what the senses tell us. Known as an "atheistic Catholic," he spent the last decade of his life at a convent. This pragmatist wrote The Life of Reason and (*) Skepticism and Animal Faith. For 10 points, name this Spanish-American philosopher best known for the aphorism "Those who cannot remember the past are condemned to repeat it."
ANSWER: George Santayana [or Jorge Agustin Nicholas Ruiz de Santayana y Borras]
7. This composer produced a piece in which jaunty "walking themes" are linked by a flute solo meant to invoke drinking alcohol, all of which are followed by section invoking "homesickness." Paul Whiteman premiered one of this man's compositions at a concert titled An Experiment in Modern Music. He wrote a symphonic tone poem featuring (*) taxi horns to duplicate the street noise in the title city. Another of his compositions opens with a clarinet glissando solo. For 10 points, name this composer of An American in Paris and Rhapsody in Blue.
ANSWER: George Gershwin
8. The objects between these things consist of a jelly-like nucleus pulposis surrounded by the annulus fibrosis, which tears when those objects are herniated. The two highest of these things are called the atlas and axis, and form a joint with the occipital bone. Those objects, discs, hold these things together. Humans have twenty-four of them, coming in cervical, thoracic, and ${ }^{(*)}$ lumbar varieties, though nine more are fused together in the sacrum and coccyx. For ten points, name these bones found in the spine.
ANSWER: vertebrae [prompt on descriptions, such as the bones that make up the spine]
9. A document written about this group declared that it was nothing, wanted to be something, and was everything. That document, asking "what is" this group, was written by the Abbé Sieyes. This group's delegates, who formed the National Assembly, were forced to meet on a (*) tennis court after being locked out of their meeting hall by Louis XVI. For 10 points, name this group of the Estates General that was neither the nobility nor the clergy, but the estate that represented common French people.
ANSWER: Third Estate
10. This ruler waged war against Pashtuns led by Sikandar Shah Suri. This man consolidated his rule by marrying a Rajput princess and by defeating Hemu at the Second Battle of Panipat. He adopted abolished the (*) jizya tax and facilitated debates between various religions, which led him to establish his own religion called Din-e Ilahi at his capital of Fatehpur Sikri. For 10 points, name this third Mughal emperor, known as "the Great."
ANSWER: Abu'l-Fath Jalal-ud-Din Muhammad Akbar
230-14-86-01110
11. A temple in Ankara contains a near-complete text of this man's record of his deeds, the Res Gestae. This emperor banished his daughter Julia due to her promiscuity at court. He built the Temple of Mars Ultor to house the standards he regained from the Parthians. After divorcing Scribonia, this man married (*) Livia and adopted Tiberius. This man took power after his general, Marcus Agrippa, defeated Marc Antony and Cleopatra at the Battle of Actium. For 10 points, name this adopted son of Julius Caesar and first emperor of Rome.
ANSWER: Augustus Caesar [or Octavianus; or Gaius Octavius; prompt on Caesar]
12. The protagonist of this film turns in a criminal for a $\$ 2000$ bounty, then saves that criminal from a hanging by shooting through the rope. Several hundred Spanish soldiers were employed to create a cemetery resembling a roman circus for one of this film's scenes. At the climax of this film, Tuco finds Confederate gold buried in the grave next to that of Arch Stanton, shortly after a three-way (*) gunfight that kills the villainous Angel Eyes. For 10 points, name this spaghetti western directed by Sergio Leone and starring Clint Eastwood as the first of three title characters.
ANSWER: The Good, the Bad, and the Ugly
13. Diomedes (DIE-oh-MEE-deez) refused to join an alliance against this man, who lied when he promised to protect the corpse of Mezentius (muh-ZEN-tee-is). When this man left his hometown for the last time, he abandoned Creusa. He avenged the son of Evander by killing the Rutulian King (*) Turnus. Mercury conveyed an order to this father of Ascanius to leave his lover and go to Latium. For 10 points, name this Trojan prince, a lover of Dido who was the mythical ancestor of the Romans. ANSWER: Aeneas
14. In this painting, a man with multicolored wings holding lilies produces an inquiry that juts out into a neighboring image; the reply to him is inscribed reverse and upside-down. Male and female martyrs gather on opposite sides of its most famous section, in which the sun shines on an animal bleeding into a golden chalice. Mary and John the Baptist flank a depiction of The Almighty in its upper panels, below the (*) Adoration of the Mystic Lamb. For 10 points, name this Jan van Eyck altarpiece.
ANSWER: Ghent Altarpiece [or The Adoration of the Mystic Lamb until it is read; accept The Lamb of God and Het Lam Gods until "adoration" is read]
15. This American city contains Queen Anne Hill and holds a yearly festival known as "The Bite." The artificial Harbor Island is within this city's Duwamish Waterway. The freshwater Lake Union is completely surrounded by this city, the home of the (*) Pike Place Market. Its primary harbor, Elliott Bay, is an inlet of Puget Sound, and a landmark here is left over from the 1962 "Century 21 Exposition" World's Fair. For 10 points, name this home of the Space Needle and most populous city in the state of Washington.
ANSWER: Seattle, Washington
192-14-86-01115
16. A project that uses high-purity silicon spheres to measure this quantity is attempting to free the definition of the kilogram from Le Gran K. This quantity can be calculated by dividing the Faraday constant by the charge of the electron. The number density of an ideal gas is given by pressure times this quantity over the gas constant times temperature, and the gas constant is equal to it times (*) Boltzmann's constant. It is used to find the molar mass. For 10 points, identify this constant equal to 6.02 times 10 to the 23rd, the number of atoms in a mole.
ANSWER: Avogadro's constant [or $\underline{\mathbf{N}}$-sub- $\underline{\mathbf{A}}$; or obvious equivalent for "constant", such as "number"; prompt on 6.022 times 10 to the 23 until it is read]
17. During an argument in this play, men mock each other by repeating the lines "lost his little flask of oil" and "oh, what a stroke, won't you come to the rescue?" At the end, two men debate by reciting lines, with one man's references to two crashed chariots being judged as the "heavier" verses. The title characters of this play memorably chant $(*)$ "Bre-ke-ke-kex-koax-koax." This play involves Dionysus journeying to the underworld to revive the playwright Euripides. For 10 points, name this comedy by Aristophanes in which the title animals serve as a croaking chorus.
ANSWER: The Frogs [or Batrachoi]
18. This region's upper boundary is the innermost of two named for Lehmann, at which P-waves turn into $S$-waves that can travel through this region, but not the one above it. This area was originally thought to be a single homogenous crystal, though it is now known to not even be symmetric. This region is estimated to be $\left(^{*}\right) 6200$ Kelvin, about as hot as the surface of the Sun. For 10 points, identify this layer, a solid ball of iron and nickel found at the very center of the Earth.
ANSWER: inner core [prompt on partial answer]
233-14-86-01118
19. This character is told by his former "ruler" that he traded a bad position for a worse one before that villain throws a flaming dart at him. This man's wife and his four sons are guided by Mr. Great-Heart. This character wounds the demon Apollyon and is abandoned by Pliable while trapped in the Slough of (*) Despond. Eventually, he makes it to the Celestial City after spending some time being arrested in Vanity Fair. For 10 points, name this generically named character who represents all believers, the title character in John Bunyan's The Pilgrim's Progress.
ANSWER: Christian [or Pilgrim from The Pilgrim's Progress until it is read]
20. This president's cabinet included the "founder of the modern navy," Navy Secretary William Eaton Chandler. As Collector of the Port of New York, he helped manage the political machine of his patron, Roscoe (*) Conkling. This president signed the Chinese Exclusion Act, as well as the Pendleton Act, which reformed the spoils system. Support for that act came after this Stalwart became President due to the actions of Charles Guiteau. For 10 points, name this President who took office after the death of James Garfield.
ANSWER: Chester Alan Arthur
21. A newspaper article in this book describes a wolf's escape from a zoo. Characters in this novel put Communion wafers in forty-nine boxes of earth, but learn the fiftieth is being shipped to Varna on the Czarina Catherine. Renfield eats spiders while at the asylum operated by this novel's character John Seward, who, like Quincey Morris, proposes to $\left(^{*}\right)$ Lucy Westenra, the best friend of Mina Harker. For 10 points, name this novel in which Van Helsing helps slay a vampire, written by Bram Stoker. ANSWER: Dracula
22. This man was attacked in a speech by Leo Amery, who quoted Cromwell in saying "In the name of God, go!" His father was a successful Colonial Secretary who vigorously waged the "Khaki Election." This man resigned after receiving reduced support in the Narvik Debate. He and Edouard Daladier convinced the $\mathbf{~}^{*}$ ) Czech government to accept the Munich Pact, after which he said "I believe it is peace for our time." For 10 points, name this British Prime Minister who promoted appeasement and was succeeded by Winston Churchill.
ANSWER: Arthur Neville Chamberlain
23. Inverting a circle that contains the center of inversion will produce one of these shapes. If a set of points is in the 'general position', then none of these shapes contain three of them. Newton's Method relies on constructing some of these shapes tangent to a curve and then finding their intersections with the $\mathbf{x}$-axis. They are the union of two antiparallel (*) rays that share an endpoint. For 10 points, identify these one-dimensional shapes whose equations can be written as $\mathrm{y}=\mathrm{ax}+\mathrm{b}$. ANSWER: lines

## hsapq

1. This planet's features include the Tharsis bulge and Utopia Planitia [Pla-nee-sha]. For 10 points each: [10] Identify this planet whose color arises from iron oxide in its soil. It is orbited by two asteroid-sized moons, Phobos and Deimos.
ANSWER: Mars
[10] This Martian mountain was supplanted as the tallest in the solar system by a mountain on Vesta. Images suggest that it is an extinct shield volcano.
ANSWER: Olympus Mons [do not accept "Mount Olympus"]
[10] This NASA rover landed in Gale Crater with the help of a sky-crane system in August 2012. It contains a full suite of chemical analysis equipment like ChemCam and CheMin.
ANSWER: Curiosity [or Mars Science Laboratory]
2. This person's posthumously published book, The Life of the Mind, was edited by her friend, Mary McCarthy. For 10 points each:
[10] Name this philosopher who analyzed Stalinism and Nazism in The Origins of Totalitarianism. Another of her books introduced the term "banality of evil."
ANSWER: Hannah Arendt
[10] Arendt discussed the "banality of evil" when writing of the trial of this former Nazi in Jerusalem. The term refers to the fact that this man, like so many others, simply thought he was doing his duty.
ANSWER: Otto Adolf Eichmann
[10] The second section of The Origins of Totalitarianism is titled for this concept, which was practiced by France in Vietnam and dubbed "the highest form of capitalism" by Lenin.
ANSWER: Imperialism
052-14-86-01202
3. The singer of this aria claims to be fast, like a bolt of thunder. For 10 points each:
[10] Name this technically-challenging tenor aria telling the audience to "make way" for the title character. Its soloist repeats his name constantly and sings tongue-twisting lyrics ending in "isimo."
ANSWER: "Largo al factotum"
[10] "Largo al factotum" is sung by this character in the The Barber of Seville. This servant of Count Almaviva woos Susanna in a Mozart opera.
ANSWER: Figaro
[10] The Barber of Seville was itself composed by this Italian, who also composed a well-known overture to William Tell.
ANSWER: Gioachino Rossini
4. This polyatomic ion is bound to lead in a commonly used car battery. For 10 points each:
[10] Identify this polyatomic anion with formula S O four two minus.
ANSWER: sulfate [do not accept "sulfite"]
[10] Sodium laurel sulfate is a detergent and a common example of this type of compound that lowers the surface tension at an interface.
ANSWER: surfactant
[10] The apparent preference for certain resonance structures can explained as minimizing this quantity, which relates the valence electrons an atom should have to its bonding and nonbonding electrons.
ANSWER: formal charge
234-14-86-01204
5. This novel features such characters as an orangutan named Jupiter and a castaway named Tom Ayrton. For 10 points each:
[10] Name this novel which begins with Union prisoners of war escaping in a balloon and ending up on a location they name for Lincoln. Their mysterious benefactor turns out to be Prince Dakkar.
ANSWER: The Mysterious Island [or L'ile Mysterieuse]
[10] Prince Dakkar is actually this man, a character from another novel. In that other novel, this character entertains Professor Arronax and Ned Land and initially appears to die in a whirlpool.
ANSWER: Captain Nemo
[10] Captain Nemo appears in Twenty Thousand Leagues Under the Sea, a novel by this French author. ANSWER: Jules Verne

052-14-86-01205
6. This controversy may have begun when Leo III ordered the removal of an image placed over the Chalke Gate. For 10 points each:
[10] Name this controversy in the Byzantine Empire, in which sides differed on whether or not particular religious images should be used or venerated.
ANSWER: iconoclasm [or iconoclast controversy]
[10] This saint and wife of Theophilos helped to restore the veneration of icons. She shares her name with the wife of Justinian I.
ANSWER: Theodora
[10] Theodora helped put down the Nika riots, in which fans of this sport tried to make Hypatius the emperor. This sport involved racing between horse-drawn quadrigae.
ANSWER: chariot racing
7. The "Dynamism" of one of these animals was painted by Futurist Giacomo Balla. For 10 points each: [10] Identify these animals, a very colorful one of which can be seen under the moon in a Joan Miro painting.
ANSWER: dogs [accept equivalents like canines]
[10] Aline Charigot holds a small dog in this artist's Luncheon of the Boating Party. He also painted The Theater Box and Girls at the Piano.
ANSWER: Pierre-August Renoir
[10] A brown dog barks at a satyr in Titian's painting of this god with Ariadne. This Roman god of wine is seen drunk in a Caravaggio painting.
ANSWER: Bacchus [or Dionysus]
8. This character takes his friend into some catacombs with the promise of rare wine. For 10 points each: [10] Name this character who chains up Fortunato before entombing him alive.
ANSWER: Montresor
[10] Montresor appears in this short story by the author of "The Tell-Tale Heart."
ANSWER: "The Cask of Amontillado"
[10] This American author wrote "The Cask of Amontillado." He is sometimes credited with inventing the detective story with "The Murders in the Rue Morgue."
ANSWER: Edgar Allan Poe
230-14-86-01208
9. This man had the nickname of "Lord Cupid" due to his youthful appearance. For 10 points each:
[10] Name this British politician who gave the "Civis Romanus sum" speech during the Don Pacifico Affair and became the Prime Minister during the American Civil War.
ANSWER: Lord Palmerston [or Henry John Temple]
[10] During one stint as Prime Minister, Lord Palmerston led Britain into the second war with China named for this drug.
ANSWER: opium
[10] Palmerston served as Foreign Secretary during this year in the nineteenth century marked by numerous political upheavals, including the toppling of Louis-Philippe in France.
ANSWER: 1848
10. This man's business card reads "I'll Call You," and if he ever punched you in the face, you would have to resist the urge to thank him. For 10 points each:
[10] Name this character whose blood smells like cologne, the star of the advertising campaign for Dos Equis.

## ANSWER: The Most Interesting Man in the World

[10] The Most Interesting Man in the World's organ donation card unusually features this part of him. At the end of "Your Love is My Drug," Kesha says she likes this feature of her boyfriend.
ANSWER: his beard
[10] Until June 2013, the similarly-bearded George Zimmer starred in advertisements for Men's Warehouse in which he followed the phrase "You're going to like the way you look" with these three words.
ANSWER: "I guarantee it"
192-14-86-01210
11. Over 5,000 physicians signed the Durban Declaration affirming the origins of this disease. For 10 points each:
[10] Name this disease that is primarily caused by people becoming infected with the human immunodeficiency virus. $66 \%$ of its deaths occur in Sub-Saharan Africa.
ANSWER: AIDS [or acquired immunodeficiency syndrome]
[10] People with AIDS have a greater risk of developing various cancers, including a type named for Denis Burkitt that affects this portion of the circulatory system that carries its namesake fluid to the heart.
ANSWER: lymphatic system [or lymph; or lymphocytes; or lymphoma]
[10] Under the name Retrovir, this antiretroviral drug was the first U.S. government-approved treatment for HIV therapy. It slows HIV replication but not entirely.
ANSWER: AZT [or Zidovudine; or INN; or azidothymidine; or ZDV]
12. One general from this country was the namesake of the Torstenson War. For 10 points each:
[10] Name this country, which was represented at Westphalia by chancellor Axel Oxensternia.
ANSWER: Kingdom of Sweden
[10] Gustavus Adolphus of Sweden won at Breitenfeld during this Europe-wide war, lasting from 1618 to 1648. It began as a conflict between Catholicism and Protestantism.

ANSWER: Thirty Years' War
[10] This Swedish queen, the daughter of Gustavus Adolphus, caused a scandal when she converted to Catholicism and abdicated the throne. Her request for early morning tutoring from Rene Descartes caused Descartes's death.
ANSWER: Christina Alexandra
233-14-86-01212
13. Its differential form states that the curl of B is equal to mu-nought times J. For 10 points each:
[10] Name this law which relates an electric current through a loop and the magnetic field generated around the loop. It is named after a Frenchman.
ANSWER: Ampère's Law
[10] Ampere's Law is one of this set of four laws, which also includes Gauss's Law and Faraday's Law. It was compiled and named after a Scottish physicist.
ANSWER: Maxwell's Equations
[10] Maxwell corrected Ampère's Law to include this factor that accounts for a time-varying electric field.
It is the current in capacitors.
ANSWER: displacement current
084-14-86-01213
14. This composer wrote many of his pieces specifically for trumpeter Valentine Snow. For 10 points each: [10] Name this Baroque German-English composer who wrote the oratorio Messiah, which features the famous Hallelujah chorus.
ANSWER: George Frideric Handel
[10] To honor the signing of the Treaty of Aix-la-Chapelle, Handel composed a wind band suite entitled "Music for" what royal celebratory event?
ANSWER: Royal Fireworks [do not accept other answers]
[10] This 1736 musical ode by Handel features a libretto adapted from a John Dryden poem. A major success, it describes the title character's banquet in Persepolis.
ANSWER: Alexander's Feast
15. Name these elements of the parables of Jesus, for 10 points each.
[10] This character from one of the parables squanders his father's inheritance in extravagance and comes home to open arms, much to the chagrin of his hardworking brother.
ANSWER: Prodigal Son
[10] In another parable, Jesus compares the Kingdom of Heaven to this kind of seed, which grows into a tree despite its small size.
ANSWER: mustard seed
[10] According to the gospel of Luke, the Good Samaritan aids a traveler going from Jerusalem to this city, on a path sometimes called the "Way of the Blood." This city's walls are destroyed in the Book of Joshua. ANSWER: Jericho
16. This thinker argued that religion developed from the securities of communal living in his The Elementary Forms of Religious Life. For 10 points each:
[10] Name this French sociologist who wrote The Division of Labor in Society and divided another phenomenon into egoistic, fatalistic, and altruistic varieties.

## ANSWER: Emile Durkheim

[10] Durkheim's most famous book analyzes the four types of this action. Depressed people sometimes perform this action by overdosing on their medication.
ANSWER: suicide [or equivalents]
[10] Durkheim also analyzed a fourth type of suicide, caused by this state of normlessness in which an individual's beliefs and actions cannot be properly integrated into the societal framework.
ANSWER: anomie
17. Answer the following about other countries' involvement in the Iraq War, for 10 points each.
[10] The invasion of Iraq occurred during the tenure of this Canadian Prime Minister, who refused to send troops unless the UN sanctioned the war. He was ousted after the Sponsorship Scandal.
ANSWER: Jean Chretien
[10] This man was PM of Britain at the time of the invasion, and enthusiastically lobbied for the war.
ANSWER: Tony Blair
[10] This country's Minister of Foreign Affairs, Dominique de Villepin, strongly opposed the Iraq War. Jacques Chirac was its president at the time of the invasion.
ANSWER: France
18. Towards the end of this novel, Colonel Brandon tends to a woman as she recuperates from sickness. For 10 points each:
[10] Name this novel about the Dashwood sisters, Marianne and Elinor, who each exemplify one of the title characteristics.
ANSWER: Sense and Sensibility
[10] This English author who wrote about Mr. Darcy and Elizabeth's relationship in Pride and Prejudice wrote Sense and Sensibility.
ANSWER: Jane Austen
[10] Louisa Musgrove falls and suffers a concussion in this other Austen novel, whose protagonist, Anne Elliot, breaks Captain Wentworth's heart by not accepting his proposal.
ANSWER: Persuasion
19. This President's failed Supreme Court nominees included Douglas Ginsburg and Robert Bork. For 10 points each:
[10] Name this Republican President, who called the Soviet Union an "evil empire" and dramatically urged Mikhail Gorbachev to tear down the Berlin Wall.
ANSWER: Ronald Wilson Reagan
[10] In 1983, Reagan proposed what mixture of ground-based and space-based systems that could shield the U.S. from attack by nuclear missiles? It soon acquired a mocking nickname.
ANSWER: Strategic Defense Initiative [or SDI; or Star Wars]
[10] Reagan's 1984 re-election campaign featured a successful commercial that cheerily proclaimed it was this period "again in America."
ANSWER: morning [do not accept other answers]
20. Rocky receives money from two prostitutes named Pearl and Margie in this play. For 10 points each: [10] Name this play in which Theodore "Hickey" Hickman confesses to the murder of his wife at Harry Hope's saloon.
ANSWER: The Iceman Cometh
[10] The Iceman Cometh is a play written by this American author, who also wrote about the morphine addict Mary Tyrone in Long Day's Journey Into Night.

## ANSWER: Eugene O'Neill

[10] In this other play by O'Neill, the title character rules over the natives of an island and is killed after being shot by a silver bullet.
ANSWER: The Emperor Jones
227-14-86-01220
21. An animal native to this continent is the Weddell seal. For 10 points each:
[10] Name this continent that contains the geographic South Pole.
ANSWER: Antarctica
[10] This largest research center at Antarctica is operated by the U.S. and is named after a lieutenant on board the H.M.S. Terror.
ANSWER: McMurdo Station
[10] McMurdo Station is located on this island. Its namesake also names the continent's largest ice shelf. ANSWER: Ross Island

