**Tournament 33**

**Round 1**

**Tossups**

1. **Leviticus 2:13 instructs one to use this material with sacrifices. It is produced through the Alberger process. A Sabine road from Rome and Asculum was named for this substance. It was the subject of the French Gabelle tax. Historically, it was mined on Avery Island, which formed from a dome of this material. The British imposed a (\*)** tax on this in India, leading to Gandhi's march to thesea. When used to preserve food, this material has iodine added to prevent goiters. For 10 points, name this material, whose table variety has chemical formula NaCl.

ANSWER: **salt**

001-13-75-01101

1. **This author wrote a play that begins with the protagonists looking for a being called the Hoopoe (hoo-PO-ee). He wrote a scene in which a character wins a contest by producing verses about “heavier” objects. In one of this man’s plays, two men receive advice from Prometheus after they create a (\*)** utopian city in the sky called “Cloud Cuckoo Land.” In another of his plays, Dionysus goes toHades to revive Euripides and is annoyed by the title croaking chorus. For 10 points, name this Greek playwright of comedies like *The Frogs* and *The Birds*.

ANSWER: **Aristophanes** (air-ih-STAHF-uh-nees)

052-13-75-01102

1. **This operation cannot be performed anywhere on the Weierstrass function. When this operation is applied to two functions that are multiplied together, the result can be found using the chain rule. All functions for which this operation is valid must be (\*)** continuous. This operation is defined as f of xplus h minus f of x all divided by h. When this operation is performed on x to the a, it gives a times x to the a minus one. For 10 points, name this operation that can be used to find the slope of a function.

ANSWER: **differentiation** [or **finding a derivative**; or obvious equivalents that include **derivative**]

066-13-75-01103

1. **One member of this family wrote about Dora, who lost her voice and worried about a jewel-case. Another member had "the controversial discussions" with Melanie Klein about child development. The most famous member of this family worked with people known as the Rat Man and Wolf Man, as well as a boy named (\*)** "Little Hans" who was afraid of horses and his father. That man of thissurname wrote the work *The Interpretation of Dreams* and divided the psyche into the id, ego, and super-ego. For 10 points, name this family which included psychoanalysis founder Sigmund.

ANSWER: **Freud**

052-13-75-01104

1. **This composer reworked a string quintet into his *Piano Quintet in F minor* and pioneered the use of a symphonic passacaglia in his fourth and final symphony. This man composed a piece whose final section features an extended quote of the drinking song "So Let Us Rejoice" or "Gaudeamus Igitur." His longest composition is a work with a libretto adapted from the (\*)** Luther Bible. For 10 points,name this composer of *A German Requiem* and *Academic Festival Overture* who also wrote a common lullaby.

ANSWER: Johannes **Brahms**

052-13-75-01105

*Tournament 33* *1* *Page 1 of 11*

1. **During this war, one side used the chassepot rifle, which was superior to the other side's older needle guns. One side's downfall in this war came after the Army of Chalons under Patrice de Mac-Mahon was defeated. Prior to this war, a monarch met Count Benedetti at a spa. Its largest battle was at Gravelotte and was won by Field Marshal von Moltke. Sparked after the editing of the**

**(\*)** Ems Dispatch, this war ended at the Battle of Sedan. For 10 points, name this 1870 war fought betweenthe countries led by Wilhelm I and Napoleon III.

ANSWER: **Franco-Prussian** War [or **Franco-German** War; or War of **1870** before it is read]

052-13-75-01106

1. **One of these beings impaled himself on an ash tree while fleeing the wedding of Pirithous**

**(pih-rih-THOO-us). Heracles died after Deianeira accidentally gave him a cloak poisoned with the**

**blood of one of these figures. Heracles used an arrow poisoned with (\*)** hydra blood to kill one of them

after they became intoxicated from a jug of Dionysian wine. Including Dictys, Nessus, and Chiron, they

were the enemies of the Lapiths. For 10 points, name these creatures from Greek myth who were half-horse

and half-man.

ANSWER: **centaur**s

079-13-75-01107

1. **Potassium atoms were used to surpass this state in January 2013 in a study performed by Schneider et al. using a quantum gas. Electrons pack together to form a "Fermi sea" at this state, and Bose-Einstein condensates exist near this state. The (\*)** Third Law of thermodynamics considers theentropy of a perfect crystal at this state, and this state has the same numerical value on the Rankine scale as it does on the more classical scale used for it. For 10 points, identify this really cold state, which is zero on the Kelvin scale.

ANSWER: **absolute zero** [or **0 K**elvin before "zero" is read; prompt on **-273.15 C**elsius or **-459.67 F** ahrenheit]

189-13-75-01108

1. **This leader declared general amnesty for Paez's Cosiata rebellion, irking his subordinate Francisco Santander. This man befriended Alexandre Petion, the leader of a rump state this man visited in Haiti. This man's army fought the Admirable Campaign before ending one country's viceroyalty of New Granada. This dictatorial leader of Gran Colombia also supported (\*)** Jose de SanMartin's campaigns further south in Peru. For 10 points, name this "Libertador" who led independence movements in South America.

ANSWER: Simon **Bolivar**

104-13-75-01109

1. **This poem describes rubies “by the Indian Ganges’ side,” and its speaker invites the addressee to “tear our pleasures with rough strife thorough the iron gates of life.” It warns of "deserts of vast eternity" and a "marble vault" that will have no "echoing song." In the second stanza, the speaker observes “Time’s winged (\*)** chariot hurrying near” before telling the addressee “thy beauty shall no morebe found” after death. This poem begins with the line, “Had we but world enough, and time.” For 10 points, name this poem by Andrew Marvell.

ANSWER: “**To His Coy Mistress**”

140-13-75-01110

*Tournament 33* *1* *Page 2 of 11*

1. **The formula for the entropy of one of these entities includes a proportionality constant of Boltzmann's constant over four and includes the inverse square of the Planck length. These bodies are surrounded by an ergosphere, and their characteristics are described by the no-hair theorem. (\*)** Supermassive ones are hypothesized to exist at the center of galaxies. These entities have event horizons and emit Hawking radiation. For 10 points, name these massive objects from which light cannot escape. ANSWER: **black hole**s

189-13-75-01111

1. **This fictional man writes about bladders on sticks carried by the servants of men with one eye pointed up and another pointed inwards. He repairs and uses a boat from Blefuscu, which goes to war over the proper way to crack an egg, and is classified as a (\*)** Yahoo while discoursing withrational horses called Houyhnhnms (HWIN-ims). This man’s act of urination to put out a house fire angers Lilliput and its tiny inhabitants. For 10 points, name this man, the subject of a Jonathan Swift satire about his “travels.”

ANSWER: Lemuel **Gulliver** [or **Lemuel** Gulliver]

104-13-75-01112

1. **A lake in this state contains Wizard Island and is located within Mount Mazama. The Wallowa Mountains cut through its northeastern corner, while its western half is dominated by the (\*)** Willamette River Valley. In its southern part, the Klamath River cuts through the Cascades. This state’s landmarks include Mt. Hood and Crater Lake. For 10 points, name this state in the Pacific Northwest with cities such as Salem and Portland.

ANSWER: **Oregon**

192-13-75-01113

1. **One character in this movie falls in love with a man who breaks into her bedroom and steals her hairpin. That character later fails to bring back an ingredient for an antidote in time to save another main character after foolishly diving into a waterfall to retrieve the Green Destiny. This movie includes a fight atop various balconies at its beginning and a later duel in a (\*)** bamboo forest. Thegoverness's daughter Jen is played by Zhang Ziyi in this film, which also stars Michelle Yeoh and Chow Yun Fat. For 10 points, name this 2000 martial arts movie directed by Ang Lee.

ANSWER: ***Crouching Tiger, Hidden Dragon*** [or ***Wohu Canglong***; or ***Ngofu Canglong***]

020-13-75-01114

1. **During this conflict, Sabinus and Cotta were massacred outside Aduatuca**

**(uh-DOO-uh-TOO-kuh), and Indutiomarus's (IN-doo-tee-oh-MAH-roos) Treveri were defeated by lieutenant Titus Labienus. It ended after two trap-laden circular walls were made at Alesia during the last stand of Vercingetorix (VER-sin-JEH-toh-rix). Eight books of *Commentaries* by this campaign's leader describe its locale as (\*)** "divided into three parts," and pause to describe the localdruids. For 10 points, name this campaign launched by Caesar, whose namesake Transalpine province is modern-day France.

ANSWER: **Gallic** Wars [or Gaius Julius Caesar's invasion of **Gaul**]

104-13-75-01115

*Tournament 33* *1* *Page 3 of 11*

1. **The author of this treatise wrote a contrasting book describing the effects of the "very worst abuses of government" entitled *Behemoth*. The fourth section of this book concerns a misinterpretation of scripture leading to a "confederacy of deceivers." That section, "Of the (\*)** Kingdom of Darkness," follows descriptions of monarchies, aristocracies, and democracies in the section titled "Of Commonwealth." For 10 points, identify this book by Thomas Hobbes that states that life is "solitary, poor, nasty, brutish, and short."

ANSWER: ***Leviathan***

146-13-75-01116

1. **In one story by this author, a young child on a cruise tells Nicholson that he is a reincarnated holy man from India. This author of "Teddy" described a veteran of World War II who talks to Sybil Carpenter on the beach before shooting himself in his wife Muriel's room. He created Seymour, a member of the family he described in (\*)** *Nine Stories.*His most famous novel follows a character who isexpelled from Pencey Prep and delights in watching his sister Phoebe ride a carousel. For 10 points, name this author who created the phony-hating Holden Caulfield in *The Catcher in the Rye.*

ANSWER: Jerome David **Salinger**

080-13-75-01117

1. **This city’s namesake art school included many “colorist” painters who opposed Mannerism. This city's architecture was discussed in a John Ruskin treatise named for its "stones." One painter from this city added finishing touches to his master's canvas *The Feast of the Gods*, but is better known for depicting two women by a sarcophagus in (\*)** *Sacred and Profane Love*and painting the reclininggoddess of love in *Venus of Urbino*. For 10 points, name this Italian city, home to Titian (TISH-en), whose public art includes mosaics in St. Mark’s Basilica and bridges over many canals.

ANSWER: **Venice** [or **Venezia**]

104-13-75-01118

1. **During this man's presidency, the Dingley Tariff was passed. He names a tariff that contributed to the Panic of 1893. This politician was helped in his first presidential campaign by Mark Hanna; during that time, he advocated "sound money" during his front porch campaign. This President agreed to his Secretary of State John Hay's Open Door Policy towards China. He led the country to war following the explosion of the (\*)** *Maine*. For 10 points, name this President during theSpanish-American War who was succeeded by Teddy Roosevelt after his assassination.

ANSWER: William **McKinley**

140-13-75-01119

1. **This disease’s largest genetic risk factor is the E4 variant of Apolipoproten**

**(AY-poh-LIE-poh-pro-teen) E. It was first identified in a woman called “Auguste D” by its namesake. This disease has been explained by a buildup of beta-amyloid deposits, which displaced an older hypothesis that it was caused by reduced synthesis of (\*)** acetylcholine (uh-SEE-til-KOH-lean).Cognitive reserve theory suggests likeliness of this disease can be lowered by reading and completing crossword puzzles. For 10 points, name this most common form of dementia which is associated with aging.

ANSWER: **Alzheimer’s** disease [prompt on **AD**]

052-13-75-01120

*Tournament 33* *1* *Page 4 of 11*

1. **This author depicted the philosophical suicide of Kirillov and the hero worship bestowed on the charismatic Nikolai Stavrogin in his novel *The Devils.* His other works include one about Prince Myshkin and one in which (\*)** Svidrigailov shoots himself after confronting the protagonist’s sisterDunya. That novel follows the poor student Raskolnikov, who murders a pawnbroker. For 10 points, name this Russian novelist of *The Idiot* and *Crime and Punishment.*

ANSWER: Fyodor **Dostoevsky** [or Fyodor Mikhaylovich **Dostoevsky**]

014-13-75-01121

1. **One configuration named for this scientist was discovered by John Huchra (HUCK-rah) and involves the gravitational lensing of a quasar by a galaxy. That configuration is his "cross." He considered atoms in a lattice as simple harmonic oscillators in his model of heat capacity. This man developed a set of ten field equations, and derived the relationship between the energy of emitted electrons and the (\*)** frequency of incident light in explaining the photoelectric effect. For 10 points,identify this scientist who developed the equation E equals m c squared.

ANSWER: Albert **Einstein**

189-13-75-01122

1. **The PIDE was a repressive police force in this country, utilized by such leaders as Marcelo Caetano. In 1976, the socialist Mario Soares came to power in this country, which two years earlier underwent the Carnation Revolution. This country had an authoritarian regime called the (\*)** EstadoNovo established by its prime minister Antonio Salazar. For 10 points, name this Iberian country that colonized Mozambique, Angola, and Brazil.

ANSWER: **Portugal** [or **Portuguese Republic**; or **Republica Portugeusa**]