**HSAPQ Tournament #53**

**Packet 4 Tossups**

1. **This politician was the namesake of a territory whose capital was Jonesborough. Alexander Wedderburn denounced this man before the Privy Council, and he was dismissed from his position as Postmaster General after he released letters written by Thomas Hutchinson. His eldest son, William, was the (\*)** Loyalist Governor of New Jersey, and during the American Revolution this man served as ambassador to France. For 10 points, name this patriot and polymath, the author of *Poor Richard's Almanack.*

ANSWER: Benjamin **Franklin**

2. **A character in this film plays the song "Angels Are Hard To Find" after commenting on how the sun looks over the Ganges. Another character in it sees a Marvin the Martian doll after recovering the body of Shariff Dasari. Later, that character in this movie gets tangled in the parachute cords of a (\*)** Soyuz, prompting the death of Matt Kowalski. The protagonist, Ryan Stone, heads to Tiangong and uses a Shenzhou to re-enter Earth's atmosphere in this film. For 10 points, name this 2013 movie in which disaster strikes the Explorer space shuttle.

ANSWER: ***Gravity***

3. **This anthropologist studied under Edvard Westermarck and Charles Gabriel Seligman at the London School of Economics. This anthropologist argued that boys in a certain society fixate their fear and anger on their uncles rather than their fathers, altering the conventional paradigm of the Oedipal complex. This anthropologist’s most famous ethnographies focus on the (\*)** Trobriand Islanders. For 10 points, name this Polish-born British anthropologist who wrote *Argonauts of the Western Pacific*.

ANSWER: Bronislaw **Malinowski**

4. **The antagonist of this film at one point has a mental breakdown and sings the song "Daisy Bell" to Dr. David Bowman. Early in this film, a bone is thrown into the air, which serves as a match cut transition jumping thousands of years into the future. This movie begins with "The (\*)** Dawn of Man," in which man-apes learn how to use tools after touching a strange monolith. Much of this film deals with astronauts tormented by a malfunctioning computer named HAL 9000. For 10 points, name this Stanley Kubrick directed science fiction film subtitled "a space odyssey."

ANSWER: ***2001****: A Space Odyssey*

5. **In this poem, a speck in the air turns into mist, and then forms the shape of a boat. The speaker of this poem notes, "He prayeth best, who loveth best, all things great and small." In this poem, Life-in-Death wins the life of the title character after rolling dice with Death. The (\*)** Wedding Guest in this poem is forced to listen to the title character’s tale after noticing his "glimmering eye." For 10 points, name this poem by Samuel Taylor Coleridge about a sailor who brings bad luck upon his ship by shooting an albatross.

ANSWER: "The **Rime of the Ancient Mariner**"

6. **The rectal type of these organs are found in dragonfly nymphs and double as a water propulsion system. Salamanders make use of the external variety of these organs, usually consisting of several pairs of moveable rami and feathery filaments. In suspension feeders, these structures play a similar role to the baleen of filter-feeding whales. These structures are composed of comb-like (\*)** lamellae to increase surface area, and are typically located behind its namesake slits. For 10 points, name this respiratory organ that absorbs dissolved oxygen from water and is mostly found in fish.

ANSWER: **gill**s

7. **The early history of this party featured conflict between the “fundis” and “realos,” who were willing to compromise with other parties. A prominent member of this party, former Vice-Chancellor Joschka Fisher, aroused controversy when he supported NATO military action in Kosovo. This party merged with (\*)** Alliance ’90 in 1993, and their Four Pillars include nonviolence, grassroots democracy, and social justice. For 10 points, name this German political party which first came to prominence protesting nuclear power and advocating for environmental causes.

ANSWER: Alliance ’90/The **Green**s [or **Green** Party]

8. **In this novel, the words "with sheets" and "without cause" are added to the side of a building. This novel features a place where it is Sunday every day of the week called Sugarcandy Mountain. A crate of whiskey is discovered shortly after some men blow up a windmill in this novel. A character whose motto is (\*)** "I will work harder" is sent to be slaughtered at a glue factory near the end of this novel, and it begins with Old Major singing the song "Beasts of England." For 10 points, name this allegorical novel featuring the pig Napoleon written by George Orwell.

ANSWER: ***Animal Farm***

9. **The finale of a string quartet by this composer ends with multiple reprisals of a theme interrupted by rests that progressively get longer, leading to its nickname, "The Joke." The music to "Deutschland über alles" comes from the second movement of his "Emperor" string quartet, a genre this composer is said to be the (\*)** “father” of. The second of this composer’s twelve “London” symphonies is named for a sudden fortissimo chord in its quiet second movement. For 10 points, name this Austrian composer of the "Surprise" symphony.

ANSWER: Franz Joseph **Haydn**

10. **This non-European city is bounded by the Humber and Don Rivers. This city is the largest in a region known as the "Golden Horseshoe." This city’s Yonge Street is erroneously called "the longest street in the world." This city is the largest hub on the Macdonald-Cartier Freeway, or Highway 401. This city is home to the tallest free-standing (\*)** structure in the Western Hemisphere, the CN Tower. It is the largest city on Lake Ontario. For 10 points, name this city containing the Rogers Centre and the Hockey Hall of Fame, the largest city in Canada.

ANSWER: **Toronto**, Ontario

11. **The iconic original cover of this book was made by Abraham Bosse. This book uses conversation of motion in order to explain human thoughts. The author of this book discusses a "confederacy of deceivers" in a section on "The Kingdom of (\*)** Darkness," and discusses avoiding the "war of all against all" in a section titled "Of Man." The author of this book promotes a strong state and describes life as "nasty, brutish, and short." For 10 points, name this tract of political philosophy by Thomas Hobbes.

ANSWER: ***Leviathan***

12. **These people carried out the Boyd Massacre in retribution for an attack on a chief's son. These people were also responsible for conquering the Chatham Islands, whose people they nearly exterminated. After acquiring western weapons they fought the Musket Wars. They use *uhi* to decorate their skin with (\*)** *moko* and became British subjects under the Treaty of Waitangi. For 10 points, name these people, for whom seven seats are reserved in the Parliament of New Zealand.

ANSWER: **Maori**

13. **This man was engaged to marry Cormac mac Art’s daughter Grainne, but she ran away with Diarmuid (dee-ARR-moo-id), whose life he refused to save after a boar hunt even though water drunk from this man’s hands could heal any wound. Under the tutelage of Finnegas, this father of the poet (\*)** Ossian accidentally burned his thumb while cooking a fish and gained all the knowledge in the world when he sucked it. For 10 points, name this Irish hero who led the Fianna and ate the Salmon of Wisdom as a youth.

ANSWER: **Fionn** mac Cumhaill [or **Finn** McCool]

14. **One of this author's characters is delighted when informed by a tutor that he has been speaking in prose all his life. In another play by this author, Angelique desires to marry Cleante despite her father's wishes. At the end of that play of his, Argan becomes a (\*)** "doctor" so that he may treat his own imagined ailments. Another of this author's characters hides under a table to discover a houseguest seducing his wife. In that play by this author, Orgon invites the title hypocrite into his home. For 10 points, name this French comic playwright of *The Imaginary Invalid* and *Tartuffe*.

ANSWER: **Molière** [or Jean-Baptiste **Poquelin**]

15. **All of the subjects in this painting are under a pink and gray awning. In the background of this painting, a man in an orange vest and a man in a top hat converse, and a woman in black gloves rejects the advances of a man in an orange-and-white striped shirt. In this painting, a woman leans over a (\*)** railing next to a girl who faces the viewer and drinks a glass of water. This painting depicts the artist's future wife playing with a dog on a table of wine and fruit. For 10 points, identify this Renoir painting which depicts the title group travelling down the Seine River.

ANSWER: ***Luncheon of the Boating Party*** [or ***Le Déjeuner des Canotiers***] [Marko Saric]

16. **This man apocryphally received a nickname after rioters broke his windows, leading him to put iron shutters on Apsley House. This man came to prominence in the Second Maratha War when he won the Battle of Assaye. This leader was said to have beat forty thousand Frenchmen in forty minutes at the Battle of (\*)** Salamanca during the Peninsular War. Another victory for this man came when he worked Gebhard von Bluecher to end the Hundred Days. For 10 points, name this British military commander who won the Battle of Waterloo.

ANSWER: Duke of **Wellington** [or Arthur **Wellesley**]

17. **This mineral is manufactured synthetically by the flame fusion process, which was developed by Auguste Verneuil (VEHR-noy-uh). The red variant of this mineral was used to create the first laser. This mineral's chemical formula is Al 2 – O 3, making it a crystalline form of aluminum oxide. On the Mohs scale, this mineral's hardness is only exceeded by (\*)** diamond, giving it a hardness of nine. For 10 points, name this mineral that constitutes the precious gems ruby and sapphire.

ANSWER: **corundum**

18. **Precisely half, including the identity, of all permutations can be referred to by this adjective. The "strong" Goldbach conjecture writes numbers of this type as a sum of two numbers of another type. All known perfect numbers can be described by this adjective. If f of x equals f of (\*)** negative x, then f is referred to by this adjective. The sum of two numbers with this parity also has this parity. For 10 points, identify this adjective applied to numbers which are divisible by two.

ANSWER: **even**

19. **A poem by this man depicts the song of "a mid-summer and a mid-wood bird" who asks "what to make of a diminished thing." This poet of "The Oven Bird" compared a man who is "all pine" with one who is "apple orchard" in a poem that concludes, (\*)**"Good fences make good neighbors." Another of his poems ends with the repeated phrase "And miles to go before I sleep." For 10 points, name this New England poet of "Mending Wall" and "Stopping by Woods on a Snowy Evening."

ANSWER: Robert **Frost**

20. **This force is thought to be carried by a spin-2 boson. The n-body problem studies the motion of objects under the influence of this force. A constant related to its strength was determined using a torsion balance by Henry Cavendish, who found it to be approximately 6.67 times ten to the negative eleven. This force's (\*)** "universal" law gives its strength as inversely proportional to distance squared and proportional to mass. On Earth, the acceleration due to it is 9.8 meters per second squared. For 10 points, identify this attractive force mathematically described by Newton.

ANSWER: **gravity** [or **gravitation**al force]

21. **In the fourteenth century, disgruntled wool carders in this city led the Revolt of the Ciompi. An unsuccessful coup against a family that controlled this city occurred in the Pazzi Conspiracy. This city was the site of a Bonfire of the Vanities led by Girolamo (\*)** Savonarola, who was later executed in this city. A ruling dynasty in this city included a patron of the arts nicknamed "Lorenzo the Magnificent" and the dynasty’s founder, Cosimo. For 10 points, name this Italian city that was ruled for the better part of three hundred years by the Medici family.

ANSWER: **Florence** [or **Firenze**]

22. **This is the name of a complex for which Lee Lawrie designed a statue featured on the cover of *Atlas Shrugged*. This is the name of a university where Oswald Avery discovered that DNA is the carrier of genetic information. The man of this name built the Kykuit estate in Westchester County. In 1989, Mitsubishi purchased an Art Deco building complex named after this man. The (\*)** GE Building is also known as building number 30 in a “center” named after this man that annually houses a giant Christmas tree. For 10 points, name this magnate who founded Standard Oil.

ANSWER: John Davison **Rockefeller** [or John Davison **Rockefeller**, Jr.; or **Rockefeller** Center; or The **Rockefeller** University]

23. **A story by this author features a ship that bears the inscription "follow your leader." In another of his stories, the narrator exclaims "ah humanity!" after the stubborn title character starves to death in The Tombs. A novel by this author includes a chapter about "whiteness" and features a cannibal who orders that his coffin be built. This author of (\*)** "Benito Cereno" and "Bartleby the Scrivener" wrote about a man who joins Starbuck and Queequeg aboard the *Pequod* before it is destroyed by the title creature. For 10 points, name this author of *Moby-Dick*.

ANSWER: Herman **Melville**

**HSAPQ Tournament #53**

**Packet 4 Bonuses**

1. The net electric field must be zero inside these objects, since they have all of their charge concentrated on the surface. For 10 points each:

[10] Name these objects in which electricity flows easily, unlike in insulators.

ANSWER: electrical **conductor**s [or **metal**s]

[10] The electric field inside these objects is constant and is proportional to the charge density of the plates. These objects are represented by parallel lines in circuit diagrams and store charge.

ANSWER: parallel-plate **capacitor**s

[10] Electric potential equals this number times the integral of electric field with respect to position. As a consequence of Lenz's law, it multiplies the time derivative of magnetic flux in Faraday's Law.

ANSWER: **negative one** [or obvious equivalents, such as **minus one**; do not accept or prompt on "one"]

2. The night this man spent in jail is the subject of a play by Jerome Lawrence and Robert Edwin Lee. For 10 points each:

[10] Name this Transcendentalist who recounted his time living alone at the title pond in *Walden*.

ANSWER: Henry David **Thoreau**

[10] Thoreau justified his decision not to pay a tax supporting the Mexican-American War in this essay about nonviolent protest.

ANSWER: “**Civil Disobedience**”

[10] This magazine founded in 1840 was edited by Margaret Fuller and served as a major publisher of Transcendentalist writings.

ANSWER: *The* ***Dial***

3. This composer collected 153 piano pieces in *Mikrokosmos* and depicted a prostitute’s seduction of a Chinese man in *The Miraculous Mandarin*. For 10 points each:

[10] Name this composer of *Duke Bluebeard’s Castle*.

ANSWER: Bela **Bartok**

[10] As the father of ethnomusicology, Bela Bartok collected the folk songs with Magyar themes of this Eastern European country, where he was born.

ANSWER: **Hungary** [or **Magyarorszag**]

[10] Bartok also wrote a piece titled *Music for Strings, Percussion, and* this keyboard instrument, which also plays the “Dance of the Sugar Plum Fairies” in the *Nutcracker*.

ANSWER: **celesta**

4. This man responded to several consecutive questions in an August 2014 debate by repeating his catchphrase, "It's our pound and we're keeping it." For 10 points each:

[10] Name this SNP leader and current First Minister who seeks to become the head of an independent government following a September 2014 referendum.

ANSWER: Alex **Salmond**

[10] Salmond is the leader of this constituent country of the United Kingdom.

ANSWER: **Scotland**

[10] Among the issues in the referendum is Salmond's promise to perform this fiscally irresponsible action if the U.K. government does not enter a currency union with an independent Scotland.

ANSWER: **renounce** Scotland's share of the **national debt** [or equivalents]

5. Early in this novel, its protagonist stays up all night with his arms crossed so that his father will let him leave home. For 10 points each:

[10] Name this novel about an analogue of the Buddha who befriends Govinda and seeks enlightenment with the ferryman Vasudeva.

ANSWER: ***Siddhartha***

[10] This German author who wrote about Harry Haller in *Steppenwolf* also wrote *Siddhartha*.

ANSWER: Hermann **Hesse**

[10] This courtesan from *Siddhartha* teaches its title character about love, and bears him a son shortly before dying of a snakebite.

ANSWER: **Kamala**

6. For 10 points each, answer the following about prominent mountain men.

[10] This man procured needed reinforcements for Stephen Kearny at the Battle of San Pasqual, blazed trails with John C. Fremont throughout most of California and Oregon, and quelled uprisings by the Comanche and Navajo tribes.

ANSWER: Kit **Carson** [or Christopher Houston **Carson**]

[10] Mountain men Jim Bridger and Jim Beckwourth were members of Ashley's Hundred, a company that took part in the trade of this resource, upon which John Jacob Astor's fortune was built.

ANSWER: animal **fur**

[10] Legendary runner John Colter accompanied this 1804 to 1806 expedition that departed from St. Louis and was aided by Sacagawea.

ANSWER: **Lewis and Clark** Expedition [or **Corps of Discovery**]

7. The method of initial rates determines this quantity for each compound. For 10 points each:

[10] Name this quantity that is equal to the stoichiometric coefficient for an elementary step. It is the exponent for a compound in the differential rate law.

ANSWER: **order** of reaction

[10] This term refers to the list of all the elementary steps in a reaction. This is the detailed description of how a multistep reaction occurs.

ANSWER: reaction **mechanism**

[10] The differential rate law includes the concentration of all of these species. These species are found on the left side of a chemical equation and are converted into products.

ANSWER: **reactant**s [or **reagent**s]

8. Cato the Elder ended all his speeches by saying that this city “must be destroyed.” For 10 points each:

[10] Name this Mediterranean city, which was eventually burned to the ground by the Romans after the Punic Wars.

ANSWER: **Carthage** [or **Carthago**]

[10] During the Second Punic War, Carthaginian forces were led by this general. He successfully led his troops across the Alps and won the Battle of Cannae.

ANSWER: **Hannibal** Barca

[10] Despite Hannibal’s victory at Cannae, Carthage was defeated after it lost this battle in North Africa, in which Scipio Africanus’s cavalry attacked the rear of Hannibal’s forces.

ANSWER: Battle of **Zama**

9. A possibly apocryphal section of this book contains the only mention of Jesus writing. For 10 points each:

[10] Name this gospel in the New Testament. Unlike the gospels of Matthew, Mark, and Luke, it is non-synoptic and more theological.

ANSWER: Gospel of **John**

[10] John describes Jesus weeping after this friend of his dies. This man, the brother of Mary and Martha, is later revived by Christ.

ANSWER: **Lazarus**

[10] The Gospel of John, in a reference to a similar line at the beginning of Genesis, begins by saying "in the beginning was" this entity, which "was God."

ANSWER: The **Word** [or **Logos**]

10. This author based Philip Quarles on himself in his roman a clef *Point Counter Point* and wrote the utopian novel *Island* as a counterpart to his most famous work. For 10 points each:

[10] Name this British author of a novel set in the year 632 After Ford, whose main characters include Lenina Crowne and Bernard Marx.

ANSWER: Aldous **Huxley** [or Aldous Leonard **Huxley**]

[10] Huxley's most famous book is this dystopian novel, which ends with the suicide of the Shakespeare-quoting John the Savage.

ANSWER: ***Brave New World***

[10] Huxley used a phrase from William Blake's *The Marriage of Heaven and Hell* to title this book, a chronicle of his experiences with the psychedelic drug mescaline.

ANSWER: *The* ***Doors of Perception***

11. He won an Oscar for Best Supporting Actor for his role as Roger "Verbal" Kint in the 1995 film *The Usual Suspects*. For 10 points each:

[10] Identify this actor, who also won Best Actor for his portrayal of Lester Burnham, a middle-aged man obsessed with his daughter's best friend, in *American Beauty.*

ANSWER: Kevin **Spacey**

[10] Spacey currently plays Frank Underwood, a corrupt congressman, who recently became President in the second season of this Netflix-produced TV series.

ANSWER: ***House of Cards***

[10] This woman plays Claire Underwood, Frank's equally corrupt wife, in *House of Cards*. She may also be known for portraying Jenny in *Forrest Gump.*

ANSWER: Robin Gayle **Wright**

12. This opera with a libretto by Nahum Tate includes the aria “Ah, Belinda.” For 10 points each:

[10] Name this opera whose first title character sings the aria “When I Am Laid in Earth.”

ANSWER: ***Dido and Aeneas***

[10] *Dido and Aeneas* was composed by this prominent English Baroque composer who studied under John Blow.

ANSWER: Henry **Purcell**

[10] This later English Baroque composer of German origins wrote the opera *Serse* but is better known for his oratorio *Messiah*, which includes the “Hallelujah” Chorus.

ANSWER: George Frideric **Handel**

13. These line segments go from one vertex of a triangle to the midpoint of the opposite side. For 10 points each:

[10] Name these segments which also divide the area of the triangle in half.

ANSWER: **median**s

[10] All three medians intersect at this point. For a solid triangle with uniform density, this point is also the center of mass.

ANSWER: **centroid**

[10] These other three segments are concurrent at the orthocenter because they all join a vertex to an opposite side by perpendicular intersection. In an obtuse triangle, two of them are outside the triangle. It is common to denote one of these segments the height.

ANSWER: **altitude** [do not accept "height"]

14. The Act of Toleration was passed during this event, granting non-Anglican Protestants religious freedom. For 10 points each:

[10] Identify this event in which the last Catholic king of England, James II, was overthrown.

ANSWER: **Glorious Revolution**

[10] This monarch, with his wife Mary, took power during the Glorious Revolution. He is the only monarch from the House of Orange.

ANSWER: **William III** of Orange [prompt on **William**]

[10] William III defeated James II two years after the Glorious Revolution at this battle near Drogheda in Ireland, despite the Jacobites' support of James II.

ANSWER: Battle of the **Boyne**

15. 348 people died at a stampede at the 2008 incarnation of this city's annual Water Festival, which celebrates the reversal of the Tonle Sap's flow. For 10 points each:

[10] Name this capital city that has never fully recovered from the forced evacuation of its entire population in 1975.

ANSWER: **Phnom Penh**

[10] Most of Phnom Penh's 2.2 million inhabitants speak this language.

ANSWER: **Khmer** [or **Cambodian**]

[10] Wide swaths of Phnom Penh's population enjoys Pradal Serey, an unarmed kickboxing martial art that is very similar to this knee- and elbow- heavy style from the country to Cambodia's northwest.

ANSWER: **Muay Thai**

16. The two men in this painting are Jean de Dinteville and Georges de Selve. For 10 points each:

[10] Name this painting in which two men stand in front of a table containing various objects like a lute and a globe. It also features an amorphous skull in the front.

ANSWER: *The* ***Ambassadors***

[10] This German artist painted *The Ambassadors*. He was the court painter to Henry VIII.

ANSWER: Hans **Holbein** the Younger

[10] In Holbein’s portrait of this scholar, the subject wears a black fur coat and places his hands on a red book that he has likely retrieved from a tiny shelf at the top right.

ANSWER: **Erasmus** of Rotterdam

17. A secret organization in this country was led by Licio Gelli. For 10 points each:

[10] Name this country where the P2 Masonic Lodge boasted future leader Silvio Berlusconi amongst its members.

ANSWER: **Italy**

[10] The Bologna railway station was bombed during this period in postwar Italian politics, characterized by violence between right and left-wing groups.

ANSWER: **Years of Lead** [or **Anni di piombo**]

[10] During the Years of Lead, Italian Prime Minister Aldo Moro's corpse was found in one of these objects. The East German government built a cheap plastic one called the Trabant.

ANSWER: **car**s [or **auto**mobiles]

18. A king of this city was an accidental son of Gaia and Hephaestus who caused the daughters of Cecrops to go mad and throw themselves off the Acropolis. For 10 points each:

[10] Name this city ruled by various kings named Erechtheus, Cecrops, and Pandion.

ANSWER: **Athens**

[10] With her olive tree, Athena defeated this god in a competition to win the patronage of Athens.

ANSWER: **Poseidon**

[10] After his father Aegeus threw himself into the sea, this hero governed Athens and changed its government to a democracy. Earlier, he had abandoned Ariadne and killed her half-brother.

ANSWER: **Theseus**

19. In this novel, Cash builds a coffin for his mother prior to her death. For 10 points each:

[10] Name this novel in which Vardaman compares his mother's death to that of a fish and the Bundren family travels to Jefferson to bury Addie.

ANSWER: ***As I Lay Dying***

[10] This Mississippian author of *As I Lay Dying* set many of his novels in Yoknapatawpha County, including *The Sound and the Fury* and *Light in August*

ANSWER: William **Faulkner**

[10] In *As I Lay Dying*, Jewel is the illegitimate child of Addie and this man, who ultimately does not confess his affair to Anse.

ANSWER: Reverend **Whitfield**

20. This molecule was first synthesized by Alexander Todd. For 10 points each:

[10] Name this molecule that is typically bound by a magnesium cofactor. It serves as the energy currency of the cell and has three phosphate groups.

ANSWER: **ATP** [or **adenosine**-5'-**triphosphate**]

[10] Phosphate groups are transferred by this type of enzyme, which can be activated by cyclins.

ANSWER: protein **kinase**s

[10] Phosphorylation of ADP is key to the function of ATP synthase, which was the subject of an experiment which showed that a rotating filament of this protein was attached to its gamma subunit. It forms microfilaments in the cytoskeleton.

ANSWER: **actin**

21. This scientist's paper "On the Electrodynamics of Moving Bodies" introduced special relativity. For 10 points each:

[10] Name this German-born physicist who also developed the general theory of relativity and developed the formula E equals m c squared.

ANSWER: Albert **Einstein**

[10] This effect predicted by special relativity leads to the "twin paradox." This effect causes clocks in a moving reference frame to tick more slowly in comparison to those in a stationary frame.

ANSWER: **time dilation**

[10] In special relativity, the factor named for this physicist appears in the formulas for time dilation and length contraction. Length contraction is also often known as his namesake contraction.

ANSWER: Hendrik **Lorentz**