

## Prison Bowl VI

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### Round 02 – Tossups

1. Jaume Plensa designed one of these structures that displays faces on two opposing towers. In addition to the Crown one in Millenium Park, another is located at the center of the Court of the Lions in the Alhambra. A tiered one featuring the goddess Latona, and another depicting Apollo and his chariot rising from the horizon are both located in Versailles. A dove crowns an obelisk at the center of one of these structures that includes a black man sitting on a pile of coins as the Rio de La Plata. The Palazzo Poli is the backdrop of one that features a statue of Oceanus. For 10 points, name these structures including Bernini's one of the Four Rivers and the Trevi, both found in Rome.

ANSWER: fountains <MZ>

2. This statement can be derived by taking the natural log of a one-electron redox reaction written using Boltzmann factors. This equation can be generalized by considering multiple ions flowing across a cell membrane, a situation described by Hodgkin, Katz and Goldman. A term containing the gas constant times temperature over Faraday's constant is subtracted from the standard half-cell reduction potential in this equation. Typically applied to Galvanic cells, it is named for a German chemist. For 10 points, name this electrochemical equation which determines the equilibrium reduction potential of a half-cell.

ANSWER: Nernst equation [do not accept "Nernst-Planck equation"] <SH>

3. Historically this region included a city that became a capital following a revolution sparked by a performance of *La Muette de Portici*. An iconoclasm that took place in this region was sparked by several open air sermons. A shibboleth was used here prior to the Battle of the Golden Spurs, and parts of the "race to the sea" occurred here, ending after the opening of the sea-locks during the Battle of the Yser. Noted for its cloth industries, this region was commemorated as a place where poppies bloomed in the aftermath of fighting at Ypres. For 10 points, identify this low-land region that comprises sections of Belgium and the Netherlands, notable for a distinct language.

ANSWER: Flanders [or Flemish Provinces] <ZZ>

4. In a poem by this writer, the title character has abided "bitter breast-cares". Lady Valentine meets another of his characters, whose "true Penelope was Flaubert" and seeks to "resuscitate the dead art / Of poetry". Along with translating "The Seafarer", this poet of *Hugh Selwyn Mauberley* described "the apparition of these faces" as "petals on a wet, black bough" in "In a Station of the Metro". He drew from his translations of Chinese poetry in a "cryselephantine poem of immeasurable length" that includes "Rock Drill" and a section written during his imprisonment in Pisa. For 10 points, name this Imagist poet of *The Cantos*.

ANSWER: Ezra Pound <MZ>

5. One of this man's works was criticized as having "the attitude of a dying civilization"; that work was refuted by Henry Hazlitt in *The Failure of the New Economics*. He described deciding whether to bring an umbrella as a case of "irreducible uncertainty" in *A Treatise on Probability*, published between the two World Wars. This man argued that the best way to pay for a war was compulsory saving to avoid wartime inflation, and he attacked the Treaty of Versailles in *The Economic Consequences of the Peace*. For 10 points, name this British economist who advocated deficit spending, the author of *The General Theory of Employment, Interest, and Money*.

Answer: John Maynard Keynes <AM>

6. One river in this province, Albany River, flows into James Bay and is used as a boundary between the Kenora District and the Cochrane District. This province also contains the town of Tobermory, in which one can take a ferry from Bruce Peninsula to Manitoulin Island on Lake Huron. Another lake in this province, which is shared with Minnesota and Manitoba, is the Lake of the Woods. Bordered to the northeast by Quebec, this province contains both its nation's largest city and capital. For 10 points, name this most populous province of Canada that contains the national capital Ottawa, with largest city Toronto.

ANSWER: Ontario <WR>

7. One of these objects can couple with a quasiparticle of plasma oscillation known as a plasmon to form a polariton. Low-energy annihilation produces at least two of these particles, which are represented by wavy lines in Feynman diagrams. The momenta of these particles may be calculated by multiplying the reduced Planck constant by the wave vector. Besides the gluon, this boson is the only massless particle in the Standard Model, and it mediates the electromagnetic force. This particle's speed in a vacuum,  $c$ , cannot be exceeded by any matter. For 10 points, name this elementary particle, the quantum of light.

ANSWER: photons [prompt on "gamma"] <WR>

8. This leader arbitrated the Bread and Roses strike and backed the actions of Edwin Curtis during one event. In one position, he repeatedly vetoed the McNary-Haugen Farm bill, and his victory over Robert La Follette and John W. Davis led to his presidential inauguration being the first one broadcast live on radio. His Secretary of State successfully negotiated the Kellogg-Briand Pact, and as Governor of Massachusetts, he ended the Boston Police Strike. His economic policies were largely formulated by Andrew Mellon. For 10 points, name this successor to Warren G. Harding who declared that the "business of government is business" in support of laissez-faire policies.

ANSWER: Calvin Coolidge <ZZ>

9. Old men with spine-chilling laughs haunt the narrator of a novel in this language, *The Blind Owl*. The song of a reed-flute opens a poetry collection in this language. In another work in this language, the Black Demon is slain by Hushang in vengeance for the death of Siamak, the son of Kayumars. In that work, Sohrab is killed by the rider of Rakhsh, Rustam. The lines "The Moving Finger writes and, having Writ, / moves on" and "A Jug of Wine, A Loaf of Bread - and Thou" were written in this language and translated into English by Edward FitzGerald. For 10 points, name this language used in Rumi's *Spiritual Couplets*, Ferdowsi's *Shahnameh* and the *Rubaiyat of Omar Khayyam*.

ANSWER: Persian [or Farsi] <MZ>

10. This son of Adhan and an incubus entered Rome as a large stag with a white foot. He was born with the ability to speak in all tongues, and once prophesied that a tower could not be built because two dragons kept tearing it down. This figure died in a stone tower in which two lovers had spent their last night when Nimue, the Lady of the Lake, trapped him inside. He helped Uther enter Tintagel ("tin-TAH-jel") and father the future king of England on Igraine. This figure experienced time backwards, mentored Arthur Pendragon, and conjured the Sword in the Stone. For 10 points, name this wizard from Arthurian mythology.

ANSWER: Merlin <WD>

11. His chief advisor was shown wearing a military uniform in late 2011, and that advisor was later preceded by an advance party on a trip to China. His military chief of staff left office in 2012, apparently due to illness, while this man became marshal of the armed forces. He was involved in a naval shelling of a contested island and continued the internment camps begun under this man's predecessor. Vowing to continue the "military first" policy, this man ordered a nuclear test, his nation's third, and threatened the United States with nuclear war. For 10 points, name this current supreme leader of North Korea, the son of Kim Jong-Il.

ANSWER: Kim Jong-un <WD>

12. A military force from this empire stopped Tang expansion under Emperor Xuangzong at the Battle of Talas, though mercenaries from this empire were sent to aid the Tang during the An Shi revolt. This empire formed following a victory at the Battle of Zab, and one ruler from it sent an elephant to Charlemagne. This empire's capital was sacked by Hulagu Khan, after which it relocated to Egypt and fractured into several factions such as the Fatimids and Almohads. Its most famous ruler, Harun-al-Rashid, established a House of Wisdom. For 10 points, identify this dynasty that succeeded the Umayyads with a capital in Baghdad.

ANSWER: Abbasid Caliphate <WH>

13. Because of a design alteration, this structure's third floor passage leads nowhere and is now a sleeping alcove. A stepped semicircular canopy connects its main house to its guest house. Living room illumination comes from overhead trellis beams, while another set of trellis beams hang over this structure's entrance. The corner windows run directly into the stonework, while broad bands of red-framed windows fold out onto balconies. Deflection of its concrete cantilevers and mold damage has led to its owner dubbing it "Rising Mildew". For 10 points, name this Pennsylvanian house situated over a waterfall, designed by Frank Lloyd Wright.

ANSWER: Fallingwater [or Edgar J. Kaufmann Residence] <MZ>

14. This organelle's luminal side is the active site of kinases which phosphorylate apolipoprotein B, while its cytosolic face contains magnesium ion receptors. This organelle, the site of proteoglycan glycosylation and GAG synthesis, receives clathrin-coated cargo proteins from endosomes and COPII ("cop-two")-coated proteins from the endoplasmic reticulum. This organelle uses budding to secrete exocytotic vesicles, and it is composed of flattened stacks of membranes known as cisternae. For 10 points, name this organelle that packages macromolecules for secretion, discovered by an Italian physician.

ANSWER: Golgi body [or Golgi apparatus; or Golgi complex] <SH>

15. This character mistakes the lemures digging his grave for workers from his land reclamation project. That vision occurs after the "Midnight" scene where Care's breath blinds him. After this character kills Valentine and causes his lover to poison her mother, his lover drowns their newborn child. The death of Euphorion causes another of his lovers, Helen of Troy, to vanish. For seeking the "eternal-feminine", this character's soul is rescued by angels and led into heaven by the soul of Gretchen. For 10 points, name this character who in search of pure happiness makes a deal with Mephistopheles in a two-part play by Goethe.

ANSWER: Heinrich Faust [accept Henry Faust, I suppose; do not accept "Doctor Faustus"] <MZ>

16. This man's Opus 19 in D flat major features piano variations on a theme representing flowers. Another piano piece by this composer contains an A, E-flat, C, B sequence as a musical cryptogram in movements such as "Eusebius", "Florestan" and "Papillons". This composer of *Blumenstück* and *Carnaval* incorporated a theme from his *Kreisleriana* into the last movement of his Symphony No. 1 and also included a *Traumerei* in his "Scenes from Childhood". His Symphony No. 3 was inspired by a trip on the Rhine River with his wife Clara. For 10 points, name this Romantic composer of the "Spring" and "Rhenish" Symphonies.

ANSWER: Robert Schumann <WR>

17. During his tenure as ambassador to the Dutch Republic, this man was able to obtain a loan for 5 million guilder, and on another occasion he participated in the capture of the *Martha*. The Direct House Tax he signed led to Fries's Rebellion. As part of his efforts to expand the navy, he commissioned the *USS Constitution*, though he avoided using it to expand the Quasi-War. In an attempt to quell growing criticism, this man signed the Alien and Sedition Acts, though Alexander Hamilton spoiled his re-election bid by splitting part of the Federalist Party in favor of Charles Cotesworth Pinckney. For 10 points, identify this first resident of the White House who succeeded George Washington as president.

ANSWER: John Adams <ZZ>

18. This word preceded by "hyper" describes a function of  $a$  equal to the K-function of  $a+1$ . The formula for the  $k$ th Catalan number is this function of  $2k$  divided by this function of  $k$  times this function of  $k+1$ . This function of successive natural numbers forms the denominators of the terms in a Taylor series. For zero, this function can be shown to equal one, by equating this function of  $n$  to the number of permutations of  $n$  objects. For 10 points, name this function which gives the product of all positive integers equal to or less than a specified integer, symbolized by an exclamation point.

ANSWER: factorial <WR>

19. Ronald Dworkin argued that this concept's reliance on double hypothetical agreements does not accurately represent reality. The veil of ignorance is a component of the original position, a thought experiment on this concept in *A Theory of Justice* by John Rawls. It is invoked after leaving a state of nature, and David Hume argued that most governments did not follow this model in the essay "Of Civil Liberty." Discussed in *Second Treatise on Government*, this concept is the subject of a work that begins "man is born free, and everywhere he is in chains", written by Rousseau. For 10 points, name this political model in which individuals consent to surrender certain freedoms to their sovereigns.

ANSWER: social contract <WD>

20. A character in this novel has a dream about kissing his lover, who then withers and turns into the maggot-infested corpse of his mother Caroline. That character, a student of Professors Krempe and Waldman, grows despondent after his brother William is strangled and his best friend Henry Clerval is killed on the Orkney Islands. Another character in this novel teaches himself by watching the De Laceys and is found aboard Robert Walton's ship mourning over Victor's body. For 10 points, name this 1823 novel by Mary Shelley about a scientist and his creation, an eight-foot-tall "wretch" with black lips and hair.

ANSWER: **Frankenstein**; or, *The Modern Prometheus* <WD>

TB. Aristotle argues against Empedocles's claim about heat and cold using a precursor of this theory. Howard Odum adapted this theory to thermodynamics in the maximum power principle, and this mechanism helps prevent the production of sterile hybrids in the Wallace effect. Trofim Lysenko argued against this theory because it disagreed with Lamarckism, and, according to its formulator, this theory states that "favorable variations would tend to be preserved" in the struggle for existence. For 10 points, name this mechanism underlying *The Origin of Species*, espoused by Charles Darwin.

ANSWER: **natural selection** [prompt on "evolution"] <WH>

## **Round 02 – Bonuses**

1. Richard Rorty, a proponent of this movement, rejected the definition of truth as being a mirror of nature. For 10 points each:

[10] Name this school of philosophy that emphasizes practical utility and uses actual value to define truth. It was espoused by John Dewey and the author of “How to Make Our Ideas Clear”, C.S. Peirce (“purse”).

ANSWER: **pragmatism**

[10] This author of *The Principles of Psychology* and “The Will to Believe” sought a middle ground between “tough-minded” and “tender-minded” philosophers in his work *Pragmatism*.

ANSWER: William **James**

[10] James criticized this theory’s definition of truth and instead turned to a statement’s “cash value”. Unlike pragmatic or coherence theories, it states that a statement is true if it is congruent to a state of affairs in reality.

ANSWER: **correspondence** theory of truth <MZ>

2. He teaches in the MFA Creative Writing program at Hunter College. For 10 points each:

[10] Name this two-time Booker Prize winner who wrote about a wager over the transportation of a glass cathedral across the Outback in *Oscar and Lucinda*.

ANSWER: Peter **Carey**

[10] This fellow countryman of Peter Carey described the spiritual connection between Laura Trevelyan and Voss as the latter explores the Outback. He also created the successful but disillusioned artist Hurtle Duffield in *The Vivisector*.

ANSWER: Patrick **White**

[10] Peter Carey and Patrick White hail from this Commonwealth nation. Also home to the bush poetry of Dorothea Mackellar, it is described as a “brown” and “sunburnt country” in a poem by Dorothea Mackellar.

ANSWER: Commonwealth of **Australia** <WR>

3. One of these works based on a Cardinal Newman poem begins with muted strings playing the “Judgment” motif. For 10 points each:

[10] Name these sacred musical compositions written for choir and orchestra. Usually longer than cantatas, famous ones include *St. Matthew Passion*, *St. John Passion*, and Edward Elgar’s *The Dream of Gerontius*.

ANSWER: **oratorios**

[10] The aforementioned *Passions* were written by this Baroque composer of *The Well-Tempered Clavier* as well as a set of harpsichord pieces named for its original performer, the *Goldberg Variations*.

ANSWER: Johann Sebastian **Bach**

[10] The sixth and final part of Bach’s oratorio named for this holiday is subtitled “For the Feast of Epiphany” and features two oboes d’amore. Arcangelo Corelli’s Concerto Grosso in G minor is also named for this holiday.

ANSWER: **Christmas** [accept **Christmas** Oratorio or **Christmas** Concerto] <WR>

4. For 10 points each, name these biological terms explained using Pokémon.

[10] In Pokémon, this process occurs instantaneously, turning a Chikorita into a Bayleef after it hits level 16. In the real world, this process happens slowly as successive generations change in genetic composition.

ANSWER: **evolution**

[10] This term encompasses both a Caterpie’s habitat, the forest, as well as its trophic position as a Vermilion, a flower-eating primary consumer. This word refers to a species’s unique ecological role.

ANSWER: ecological **niche**

[10] In this process, a single species, like an Eevee, evolves rapidly into many different species, like a Jolteon or a Flareon, when exposed to different environments. This process also resulted in 14 species of Galapagos finches.

ANSWER: **adaptive radiation** <SH>

5. The United Kingdom is often known for its navy and well trained admirals. For 10 points each:

[10] This British Admiral forced Napoleon out of Egypt by winning the Battle of the Nile and disrupting his supplies. He ordered his flags to signal, "England expects that every man will do his duty" at Trafalgar.

ANSWER: Horatio **Nelson**

[10] Prior to defeating the Spanish Armada, this English captain was a privateer in the Caribbean. He circumnavigated the world as captain of the *Golden Hind* while serving under Elizabeth I.

ANSWER: Francis **Drake**

[10] This World War I admiral led the British fleet to the Battle of Jutland, a tactically inconclusive engagement that also marked the only time the German fleet left port.

ANSWER: John **Jellicoe** <JL>

6. For 10 points each, name the following literary devices from their usage by Shakespeare.

[10] This term refers to the discrepancy between the reader's knowledge and that of a character in a play. Examples include Romeo's assumption of Juliet's death and Othello's ignorance of Iago's scheming.

ANSWER: dramatic **irony** [do not accept "situational irony" or "verbal irony"]

[10] In *Richard III*, Shakespeare employs this device in the line "Grim-visaged War hath smooth'd his wrinkled front". It involves attributing human characteristics to an inanimate object.

ANSWER: **personification**

[10] Hamlet's exclamation "Frailty, thy name is woman!" and Macbeth's vision of a dagger are examples of this device that employs personification in directing attention to an abstract or imaginary figure.

ANSWER: **apostrophe** <MZ>

7. For 10 points each, answer the following about Britpop.

[10] This Britpop song from Blur's self-titled album includes the lines "I got my head checked" and "Pleased to meet you". Its raucous chorus sees Damon Albarn yell "Woo-hoo!".

ANSWER: "**Song 2**"

[10] Blur clashed with this band whose members include the Gallagher brothers. Their songs include "Rock 'N' Roll Star" from *Definitely Maybe* and "Wonderwall" from *[What's the Story] Morning Glory*.

ANSWER: **Oasis**

[10] Oasis was signed to Creation Records, which had earlier signed this shoegaze band. Andy Bell, who became the bassist for Oasis, sang "You seem to come and go" in "Vapour Trail", a track from their debut album *Nowhere*.

ANSWER: **Ride** <MZ>

8. Answer some questions about the god of thunder and his family, for 10 points each.

[10] This son of Odin was served by Djalfi and wielded the hammer Mjolnir.

ANSWER: **Thor**

[10] This goddess and wife of Thor had golden hair, an allusion to wheat. Loki once cut her hair off, after which Thor threatened to break all of Loki's bones.

ANSWER: **Sif**

[10] To make amends, Loki coaxed the dwarfs into making items including Mjolnir and Skidbladnir, the latter of which was one of these objects. Naglfar, another one of these, is made of the nails of the dead.

ANSWER: **ship** [accept **boat** and other clear equivalents] <WD>

9. Answer some things about ideal solutions for 10 points each.

[10] If a solution is ideal, mixing should keep this quantity constant. This state function, measuring the heat content of a system, is symbolized H and is negative for exothermic reactions.

ANSWER: **enthalpy**

[10] Mixing an ideal solution also conserves this quantity, which equals enthalpy minus internal energy divided by pressure. Boyle's law inversely relates this quantity with pressure.

ANSWER: **volume**

[10] When a solution deviates from the ideal, this corrective factor is introduced, symbolized gamma. Multiplying this term by mole fraction equals a measure of the effective concentration of a mixture, symbolized a.

ANSWER: **activity coefficient** [prompt on partial] <WR>

10. Let's talk about pottery for 10 points each.

[10] This dynasty is known for its fine blue and white porcelain vases, some of which admiral Zheng He brought with him on his 15th century voyages before they were discontinued by the Hongxi Emperor.

ANSWER: Ming Dynasty [or Empire of the Great Ming]

[10] These double-handled containers typically held wine in Ancient Greece and Rome. Ceremonial ones, like the loutrophoros, were often painted in black-figure or the later red-figure style.

ANSWER: amphorae

[10] This English potter revolutionized ceramics by developing Queen's Ware and jasperware, stoneware that was not only pretty but could be mass-produced. Today, his company is merged with Waterford Crystal.

ANSWER: Josiah Wedgwood <WR>

11. The people on the left are focused on a dog standing over a guitar and dagger, while the intellectuals on the right focus on the central figure. For 10 points each:

[10] Name this painting featuring the painter looking away from a nude woman to work on a landscape.

ANSWER: *The Painter's Studio* [or *The Artist's Studio*; or *L'Atelier du peintre*]

[10] This painter of *The Origin of the World* and *The Artist's Studio* came under fire for his realist and grand scale treatment of a funeral in *A Burial at Ornans*.

ANSWER: Gustave Courbet

[10] *The Artist's Studio* was heavily influenced by this Diego Velazquez painting of the Infanta Margarita and her entourage. A mirror in the background of this painting reflects the image of the king and queen. .

ANSWER: *Las Meninas* [or *The Maids of Honor*] <MZ>

12. He describes the escapades of Danny, Pilon and friends in *Tortilla Flat*. For 10 points each:

[10] Name this novelist of *Cannery Row*. He depicts the evil Cathy Ames and her relationship with the Hamilton and Trask families in a novel set in the Salinas Valley, *East of Eden*.

ANSWER: John Steinbeck

[10] This Steinbeck novel details the Joad family's travel from Oklahoma to California during the Dust Bowl. Its title comes from Julia Ward Howe's "The Battle Hymn of the Republic".

ANSWER: *The Grapes of Wrath*

[10] This early Steinbeck novella begins when Carl Tiflin gives his son Jody the title animal, Gabilan. Despite the efforts of Billy Buck, Gabilan later dies, a fact which worries Jody while Nellie is giving birth.

ANSWER: *The Red Pony* <WR>

13. This locale does not actually contain 42 Wallaby Way. For 10 points each:

[10] Name this largest city of Australia that contains Warragamba Dam as well as an architecturally significant Opera House on Bennelong Point.

ANSWER: Sydney

[10] Sydney is the capital of this state of Australia, bordered to the south by Victoria and to the west by South Australia. Other cities in this state include Wollongong and Newcastle, and it contains Mount Kosciuszko.

ANSWER: New South Wales

[10] South Australia's capital is this city, located just north of Fleurieu Peninsula. This fifth-largest Australian city was designed by the "Light's Vision" program, which surrounded it with parks such as Rundle and Rymill.

ANSWER: Adelaide <WR>

14. This religion venerates twenty-four tirthankaras, humans who spread the religion and serve as role models for its adherents. For 10 points each:

[10] Name this Indian religion emphasizing a strict view of ahimsa, or non-violence. Monks of this religion observe five vows or the Mahavrata, including ahimsa, satya, and aparigraha.

ANSWER: Jainism

[10] This cycle of life, death, and reincarnation is a central concept in Indian religions such as Jainism, Buddhism, and Hinduism. It is ended by moksha.

ANSWER: samsara

[10] The central tenets of modern Jainism were established by this Indian sage in the 6th century BC. He organized his followers into four orders and was the last tirthankara.

ANSWER: Mahavira [or Vardhamana] <SH>

15. Hono Heke was the first of about 540 rangatira to sign it on February 6, 1840. For 10 points each:

[10] Name this document drafted by William Hobson and James Busby of the British Crown that granted tribal and property rights to indigenous Polynesians of a certain Pacific island.

ANSWER: Treaty of Waitangi

[10] This people signed the treaty of Waitangi and represent 15% of the current population of New Zealand. Their warrior culture features a chant and dance known as the haka.

ANSWER: Maori

[10] While exploring the Golden Bay, this Dutch navigator was attacked by Maori canoes in 1642. Along with New Zealand, he also explored Australia and an island now named after him.

ANSWER: Abel Tasman <WR>

16. Preceded by “specific”, this term for jet engines equals thrust divided by mass flow rate times standard gravity.

For 10 points each:

[10] Name this quantity which is equal to the integral of force with respect to time. With units of Newton-seconds, it is often expressed as change in momentum.

ANSWER: impulse [prompt on “I” or “J”]

[10] To equate impulse with change in momentum, one can apply this formula, which equates net force with the time derivative of momentum or, more commonly, net force with mass times acceleration.

ANSWER: Newton’s second law of motion

[10] Momentum is often symbolized with this lowercase letter. This letter in uppercase can represent a quantity equal to the time derivative of work, with units of watts.

ANSWER: p <WR>

17. In Miguel de Unamuno’s *Mist*, Augusto Perez claims that this character is more real than his creator Cervantes.

For 10 points each:

[10] Name this character who, seeking to revive the chivalrous knight, sets out on an adventure with Sancho Panza.

ANSWER: Don Quixote [or Alonso Quixano]

[10] Sancho Panza distracts his demon with tales of chivalry, turning him into a harmless and amusing fool in a short story by this author of “A Hunger Artist” and “In the Penal Colony”.

ANSWER: Franz Kafka

[10] In a short story by this Argentine writer, Pierre Menard’s identical copy of *Don Quixote* is judged as superior to Cervantes’s original. An infinite number of copies of *Don Quixote*, differing minutely, may exist in the Library from another of his works.

ANSWER: Jorge Luis Borges <MZ>

18. Its creator wrote a namesake Report including *Sexual Behavior in Males* and *Sexual Behavior in Females*. For 10 points each:

[10] Name this 0 to 6 scale of sexual orientation, 0 being exclusively heterosexual and 6 being exclusively homosexual. It was one of the first surveys of sexuality to allow a continuum of orientations.

ANSWER: Kinsey scale

[10] Kinsey reported that nearly half the male population fell in the middle of the scale, which describes this sexual orientation. It is an attraction to both males and females.

ANSWER: bisexuality

[10] A 1991 *Science* paper by Simon LeVay correlates sexual orientation with the size of INAH3, one of many nuclei found in this part of the brain. It also controls circadian cycles and the release of hormones from the pituitary gland.

ANSWER: hypothalamus <MZ>



19. He was readmitted to the Massachusetts bar after serving three and a half years in prison. For 10 points each:

[10] Identify this man accused by Whittaker Chambers of being a Soviet spy within the State Department. Character witnesses during his trial included two Supreme Court justices among numerous other dignitaries.

ANSWER: Alger Hiss

[10] Chambers produced these documents following a HUAC subpoena to incriminate Hiss, consisting of 5 strips of microfilm, several handwritten notes, and copies of State Department documents. They are named for the temporary location they were placed in.

ANSWER: Pumpkin Papers

[10] This man led the motion for Hiss to be investigated by HUAC, partly based on a secret tip he received from the FBI about Hiss's supposed guilt. He later lost in the 1960 presidential election to John F. Kennedy.

ANSWER: Richard Milhous Nixon <ZZ>

20. Its interaction with an airfoil is characterized by the Küssner effect. For 10 points each:

[10] Name this term describing the movement of air, usually due to atmospheric pressure gradients. Anemometers measure this phenomenon's speed while weathervanes measure its direction.

ANSWER: wind

[10] These easterly prevailing winds are found in the tropics and arise due to Hadley cells. They are closer to the equator than the westerlies, and have historically carried both tropical storms and explorers to North America.

ANSWER: trade winds

[10] This region near the equator is where the southeast and northeast trade winds combine, leading to an area of low pressure and little wind but increased thunderstorm activity.

ANSWER: the doldrums [or Intertropical Convergence Zone; or ITCZ] <WR>

TB. In this novel, Mrs. Bolton is hired to nurse Clifford after he paralyzed from the waist down. For 10 points each:

[10] Name this novel in which Constance has an affair with Michaelis, a visiting playwright, but ultimately finds fulfillment with Oliver Mellors, the gameskeeper.

ANSWER: *Lady Chatterley's Lover*

[10] *Lady Chatterley's Lover*, *The Rainbow*, and "The Rocking-Horse Winner" were written by this man, who wrote of Gertrude Morel's unhappy marriage to a coal miner in the semi-autobiographical *Sons and Lovers*.

ANSWER: David Herbert Lawrence

[10] This sequel to *The Rainbow* contrasts the relationship of Ursula Brangwen and Rupert Birkin to that of Ursula's sister Gudrun and Gerald Crich.

ANSWER: *Women in Love* <TN>