

Tossups:

1 American Lit

This author wrote about her personal experiences with the Sacco and Vanzetti trials in *The Never Ending Wrong*. In a story by this author, the protagonist has a sudden urge for honey while on her way to deliver food to her husband, which results in her learning her husband is having an affair with a beekeeper. In another story by this author, the title character becomes irritated with Doctor Harry and snaps at her daughter Cornelia shortly before dying. This author included those stories, "Maria Concepcion" and "The Jilting of Granny Weatherall," in her collection *Flowering Judas and Other Stories*. A novel by this author depicts the rise of Nazism in characters such as Herr Baumgartner and was inspired by a 15th century prose poem written by Sebastian Brandt. For 10 points, name this American author who described a multinational group of people sailing from Mexico to Spain in her novel *Ship of Fools*.

ANSWER: Katherine Anne **Porter** <AS>

1 British Lit

While viewing one of these things, a character describes how a boy's eyes show "something wandering, pale, like a reflection." Another character states "I have had my vision" after seeing a man travel to one of these structures. While in one of these buildings, a character from a different novel is described as having feet "like two unhurried compass needles." A character who whips himself in one of these structures later hangs himself in it after being photographed by Darwin Bonaparte. That character who dies in one of these structures is John the Savage from Huxley's *Brave New World*. In a different novel, a child is told by his mother that he may visit one of these structures if the weather is fair the next day, but his father insists it won't be fair. James Ramsay yearns to visit, for 10 points, what type of building that titles a Virginia Woolf novel?

ANSWER: **lighthouse** [accept *To the Lighthouse*; prompt on light] <AS>

1 European Lit

This author's complex views on determinism are exemplified by a passage which claims that a man is 'in some sense' free when completely alone and raising his arm, but once he enters in relationships with other all actions become predetermined. An essay quotes a remark by a contemporary of this author who claims that this author is at his weakest when discussing fatalism from his 'hobby horse' and 'only when he touches the earth does he, like Antaeus, recover his true strength.' A 1953 work argues that this author's disdain at the great man theory led him to develop a sort of calculus where infinitesimally small human actions would need to be integrated across time for an ideal historical science to function. An epigraph by E.M. de Vogue describing this author as having the brain of an English chemist with the soul of an Indian Buddhist begins an essay that traces this author's influences to Schopenhauer, Stendal, Rousseau but most of all the reactionary polemicist Joseph de Maistre. The author of that essay has a hard time classifying this author as either a writer who knew many things or one big thing. Isaiah Berlin's essay "The Hedgehog and the Fox" discusses, for 10 points, what Russian novelist's view of history, which is exemplified by his character Pierre Bezukhov's experiences at the Battle of Borodino.

ANSWER: Leo **Tolstoy** <TH>

1 World Lit

While at an “Infant School”, this book’s protagonist has his drawing of death in the form of a furry elephant confiscated. This novel’s protagonist observes that people never talk to you about murder on the bus before running into his long-lost sister Lena, who he brushes off. This book closes as the protagonist suffers a stroke while writing the word “indigo”, an anagram for “god in I”. This novel’s fifth chapter consists of a conversation with a naive grocer who masturbates in public. The novel’s protagonist’s many lovers include the overweight prostitute Nacne, the Greek heiress Hero, and the art collector Oliva Davenport. The protagonist spends much of this novel obsessed with the hunch of his adopted sister Rhoda, who he lives with again in his old age while he has an affair with the teenage concert pianist Kathy. This book’s main character smears shit onto the canvas of his work showing the eye of god, whose image had haunted him since growing up poor in Sydney. For 10 points, name this novel about the Australian child prodigy and painter Hurtle Duffield, a work by Patrick White.

ANSWER: *The **Vivisector*** <TH>

CONVERTED into bonus

1 Your Choice Lit

Barbara Wright’s translation of a play by this author for New Directions features handwritten text and numerous illustration by Franciszka Themerson that often wave behind the text. In a letter to his friend Lugne-Poe, this author wrote that it would be interesting to stage his most famous play so that the title character wears a cardboard horse head around his neck, as was done in medieval English theater. Years after his death at 34, controversy arose about concerning this author’s plagiarism of a student play whose text was written mostly by Charles Morin. A character created by this author often swears by green candle and poisons several visitors at a lavish meal with a toilet brush. A riot broke out a premiere of a play by this author, in part due to its first word being a variation on the word ‘shit’. In his book *Exploits and Opinions of Dr. Faustroll*, this author invented a satirical system of “imaginary solutions” that lies beyond the realm of metaphysics. For 10 points, name this French author who invented ‘pataphysics and created an grotesque Polish leader in his play *Ubu Roi*.

ANSWER: Alfred **Jarry** <TH>

1 American History

A local journalist named Gary Moore is primarily responsible for bringing this event into the public eye, largely through his interviews with Arnett Doctor, who was nearly disowned by his family for revealing details regarding this event. Maxine D. Jones wrote a study about “[*this event*] and the Women Who Survived It,” which detailed Minnie Lee Langley’s heartbreaking retelling of the Carrier House Siege, which took place during this event. This event saw Mingo Williams, a out-of-town turpentine-collector, being shot and killed, following him giving his name as “Lord God” to a frenzied crowd. The death toll of this event has been estimated between 8 and 150, an uncertainty stemming from the culture of silence following this event; thus, this event was only recognized by the state legislature in 1993. This event was the subject of a renowned, though inaccuracy-laden 1997 historical film, directed by John Singleton. In the lead-up to this event, a chapter of the KKK in a nearby city had rallied under a banner that stated “First and Always Protect Womanhood,” demonstrating that tensions were already high when this event was sparked by the supposed rape of “Fannie” Taylor by a black man in the nearby village of Sumner. For 10 points, name this 1923 racially motivated massacre that took place in a namesake Florida town.

ANSWER: **Rosewood** Massacre <TM>

2 European/Canadian/Australian History

Two answers required. Historians John Gillingham and Jean Flori have disagreed regarding a theory surrounding these two people, which was first proposed utilizing a translated chronicle which mentions “eating every day from the same table and from the same dish.” Following one of these men paying homage to the other at Bonsmoulins, the two of them allied to attack the father of the older of these two men, who was then forced to pay homage by the Treaty of Azay-le-Rideau, before his death only days later. Following the defeat of one of these men by the other at the Battle of Gisors, the victor adopted the motto “God and my Right,” a motto still used in his present-day country. Following one of these two men being released from imprisonment, the other sent a message stating “Look to yourself; the devil is loose” to the first man’s younger brother. One of these two rulers was intended to marry the sister of the other, Alys, but this didn’t pan out, in part due to the theory that Alys had undertaken an illegitimate relationship with her betrothed’s father. In one image from the *Grandes Chroniques de France*, these two men are displayed accepting the keys to an Ayyubid city from a kneeling slave. Roger of Hovedon stated that “at night” these two men “didn’t let their beds separate them,” leading to the unlikely theory that these two rulers shared a homosexual relationship. Following the 1189 Siege of Acre, one of these rulers ceased their cooperation to return home early, thus ending his involvement in the Third Crusade. For 10 points, name these two kings; one, the successor of Henry II who was known for his strong constitution, and the other, a Capetian king with an epithet suggesting Roman glory.

ANSWER: **Richard I** of England and **Philip II** of **France** [both answers are necessary, but accept **Richard Coeur de Lion** or **Richard the Lionhearted** for **Richard I**; accept **Philip Augustus** for **Philip II**; prompt on **Philip II** by asking “which one?”] <TM>

USED

The unequal application of sovereignty in this case was critiqued by John Borrows in *Sovereignty's Alchemy: An Analysis of [this case]*. A central question in this case was whether or not evidence provided by the *kungax* and *adaawk* required historical verification. When discussing the relationship of settlers and Indigenous, the Chief Justice of this case infamously stated that “let us face it, we are all here to stay”. A threefold test developed in this case’s decision was more recently used to rule in favor of the Tsilhqot’in Nation. In the original trial preceding this case, Allan McEachern dismissed the claims of the Gitksan and Wet’suwet’en nations on the basis of extinguishment. *R. v. van der Peet* developed the “Integral to a Distinctive Culture Test” that was used by Chief Justice Antonio Lamer in this case to accept the oral history of the appellant. For 10 points, name this 1997 case in which the Canadian Supreme Court used the *Constitution Act, 1982* to rule that Indigenous people had an exclusive right to their land because “Aboriginal title is a burden on the Crown's underlying title.”

ANSWER: ***Delgamuukw v. British Columbia*** <JS>

1 World History

A collection of clay cylinders covered in three different languages being found at a palace complex notably close to one of these locations led to speculation that the cylinders comprised labels in history's first example of a museum. Land nearby to one of these structures was used as a parking lot for MiG fighter jets in the hope that enemy bombers would be reluctant to attack the planes out of fear that they damage the structure. Legend holds that a damaged one of these structures was nearly rebuilt by Antiochus I, but following his tripping over part of the rubble, he had it permanently destroyed. Herodotus has given conflicting accounts regarding the purpose of these structures, including their being used for protection from floods. In the present-day, most of these structures have either disappeared entirely or lie in ruins, apart from the most notable one, which had its lower facade and main central staircase refurbished by Saddam Hussein. It's not a mastaba, but that one of these structures can be found near modern-day Nasiriyah, and was originally constructed in Ur. Etemenanki was one of, for 10 points, which religious structures, a form of step pyramid that was often constructed in ancient Mesopotamia.

ANSWER: **ziggurats** [prompt on step pyramids] <TM>

[clues from Great Ziggurat of Ur, Etemenanki, and Ennigaldi-Nanna's Museum]

1 Other History

In a discussion on the instruction of children in this work, its author criticizes the people of Irfiqiyah and the Maghrib for restricting themselves to the Qur'ân "because no human being can produce anything like it". In contrast to the thought of Al-Shahrazuri, this work does not believe that an individual who exerts a restraining influence on others, or a *wazi*, must be religious. Although translated as 'civilization' or 'region', the concept of *umran* is used in this work to refer to the growth in society through human cooperation. Many economists have noted the parallelism between this work's section "On the various aspects of making a living" and the later labor theory of value of Adam Smith and Karl Marx. In an introduction by N.J. Dawood, he praises the author of this text for "rejecting idle superstition" and "adopt[ing] a scientific method". Franz Rosenthal produced the most commonly cited English translation of this work which contains a chapter that finds Bedouin people to be superior to sedentary people. The author used a political, non-hereditary interpretation of *asabiyah* to explain how one group achieves predominance over other groups. This book, which consists of the Preface and Book I of its author's *Kitâb al-'Ibar*, is regarded as one of the earliest attempts to analyze and discover a pattern in human history. For 10 points, name this work of historiography by Ibn Khaldûn.

ANSWER: ***Muqaddimah of Ibn Khaldun*** [or ***Ibn Khaldun's Prolegomena***; or ***Ibn Khaldun's Introduction to History***; prompt on *Prolegomena* or *Muqaddimah* or *Introduction* before "Ibn Khaldun" with "Who wrote it?"; prompt on *Kitab al-'Ibar* or *Book Of Lessons* before mentioned with "Which part?"; accept ***Muqaddimah*** or ***Prolegomena*** after "Ibn Khaldun"] <JS>

1 Biology

Drugs that target an enzyme family whose substrate is this molecule include apocynin, which inhibits enzyme assembly, and HMG-CoA reductase inhibitors, which prevent Rac GTPases from binding to the enzyme. Duox, whose substrate is this molecule, is activated by calcium binding to its EF-hand domain downstream of the detection of flagellin by TL5, and this molecule is also the substrate of the NOX family of enzymes. The first chemotherapy drug aminopterin targeted an enzyme that requires this molecule to reduce dihydrofolate to tetrahydrofolate. Mitochondrial p450 enzymes receive electrons from this molecule. Responsible for respiratory bursts, this molecule's oxidase catalyzes the formation of reactive oxygen species in phagocytes. 6PGD catalyzes the formation

of this molecule at the end of the oxidative phase of the pentose-phosphate pathway. ATP and this molecule are used to convert 3-PGA to G3P in the Calvin cycle. For 10 points, name this reduced form of NADP+.

ANSWER: **N**icotinamide **A**denine **D**inucleotide **P**hosphorus **H**ydrogen <JS>

1 Chemistry

Carter showed that one type of this functional group, when embedded in transpolyacetylene, can be switched on and off by soliton propagation. Depending on whether a calcium ion or a hydrogen ion is input, a system consisting of one type of this functional group and a quinoline was an early molecular logic gate representing XNOR and XOR. One type of this functional group has a low rotational barrier because an electron-withdrawing group and an electron-donating group are opposite each other, that is the push-pull type. The approach control model predicts the outcome of one reaction that produces this functional group when a chelating agent is absent, while a ‘butterfly’ transition state applies when a chelating agent is used. That reaction that forms this functional group is favored due to the easy removal of the disiloxane by-product; this functional group is formed stereospecifically from different stereoisomers of β -hydroxysilane in that reaction named for Donald John Peterson. Sonication improves the rate of formation of the zinc carbenoid used to turn these functional groups into cyclopropanes in the Simmons-Smith reaction. A phosphonium ylide is reacted with a carbonyl to form—for 10 points—what functional group formed by the Wittig reaction?

ANSWER: **olefins** [or **alkenes**; accept **push-pull olefins**] <JS>

USED

1 Physics

Jiang et al. developed a scheme to identify of these phenomena based on Sperner’s lemma. Jeong and Hussain defined these phenomena as connected regions in which the strain-rate tensor squared plus the spin tensor squared has two negative eigenvalues. The Combinatorial Method and the Lambda2 Method are local, regional algorithms to detect these phenomena. Pairs of these phenomena are subject to a long wavelength disturbance on the order of their separation, the Crow instability. A stationary body can shed these phenomena at a frequency commonly measured by the Strouhal number. Unlike pairs of these phenomena, the flow velocity in a ring of these phenomena depends on their core thickness. An infinite linear distribution of these phenomena is often modeled as a sheet with a fluid velocity of $\gamma/2a$ above the sheet and negative $\gamma/2a$ below the sheet. In incompressible flow, the lines of these phenomena cannot terminate in the interior of the flow because the divergence of the curl of the flow velocity is zero. Beyond the critical Reynolds number, these phenomena form. For 10 points, name these features characterized by particles in a fluid rotating around a center.

ANSWER: **vortices** [or **vortex**] <JS>

1 Math/CS

In a Banach space with the Radon-Nikodym property, a closed and bounded set C is equivalent to this set formed by points in C that do not lie on an open line segment lying in C. Certain subsets K of a T2-space are equal to this set generated by K’s extreme points according to the Krein-Milman theorem. If X is in this set generated by a subset S of \mathbb{R}^n , then there is a subset P of S with at most $n+1$ points such that x is in P according to Caratheodory’s theorem, which is used to show that everyone of these sets generated by a compact subset of \mathbb{R}^n is compact. A k-simplex is given by this set formed by its k plus one vertices. For a set of points $x \in \mathbb{R}^n$, this set is equal to all of the sums over n of $\alpha_i x_i$ such that each α_i is non-negative and the α_i ’s sum to one. Depending on their layout, this set for four random points can either be a quadrilateral or a triangle. For 10 points, name this set whose boundary can be thought of as putting a rubber band around a set of points.

ANSWER: **convex hull** <JS>

CONVERTED into bonus

1 Other Science

A pioneering one of these facilities uses a semi-aerobic design with a gas venting pipe whose end is always open and a perforated collection pipe to increase the ease of maintenance and reduce methane emissions; that is Fukuoka method. In these facilities, anchor trenches are designed to prevent pullout of FMLs without causing tension failure. The sandwich method is useful for some of these facilities, but the cell method is more widely used. Sliding along interfaces between layers of geotextile, geomembrane, and clay caused a stability failure at one of these facilities in Kettleman Hills. Experiments to model contaminant transport at these sites typically determine the diffusion of the chloride ion. A 3:1 or 20 degree slope gradient is recommended for these facilities that use either push-down and push-up methods for spreading and compaction. Protective liners in these facilities reduce groundwater pollution by leachate. For 10 points, name these facilities for solid waste disposal on land.

ANSWER: **landfills** [accept garbage **dump**] <JS>

USED

1 Painting/Sculpture

Description acceptable. This painting was partially inspired by one made by a contemporary of its creator, in which its central figure flips through sheet music, while a partially-obscured guitar and a series of gilt books make up the backdrop. In addition to serving as the subject of this painting, the depicted person also worked under its artist, creating a series of 52 oval-shaped engravings that drew inspiration from the gemstones of Jacques Guay. It's not by Manet, but in the background of this painting, a giant golden mirror dimly displays an ornate bookcase, atop which is a clock and molding in the shape of a golden baby. The bottom-right corner of this painting depicts a wooden nightstand, and a quill poking out of its open drawer. This single-person portrait, its artist's most famous, depicts an interior environment, reflecting his creed that nature is "too green, and badly lit." The central subject of this portrait wears a flowing turquoise-green dress bordered with pink flowers, as she gazes disinterestedly off to her right, away from the open book in her hand. Located in the Neue Pinakothek, for 10 points, name this portrait of the most famous mistress of Louis XV, painted by a Rococo master.

ANSWER: **Boucher**'s main portrait of **Madame de Pompadour** [accept descriptions without **Boucher** if they illustrate **Madame de Pompadour** in a **green dress**, or something to that effect, until mentioned; accept **Jeanne Antoinette Poisson** in place of **Madame de Pompadour**] <TM>

[The inspirational painting was painted by Maurice Quentin de la Tour]

1 Classical Music

One work by this composer has its last section, marked *tenebroso*, begin with slowly ascending quarter notes in the left hand, while the right hand plays descending pairs of 16th notes on the ANDs and the UHs, before concluding the entire piece with two pianissimo ascending chords, marked *leggierissimo*. This composer owes much of his present-day popularity to Hamish Milne, who recorded a famed 1977 double LP that included both this composer's Opus 11, Sonata Triad, and Three Hymns in Praise of Toil. A different work by this composer that is perhaps his most famous opens with a single bar of 5/4 (five-four) that lays out a powerful descending triplet figure, before switching to 4/4 time, marked *tranquillo*; that piano sonata in E minor contains an *allegro* restating of the opening motif in the rarely seen 15/8 meter. Both Geoffrey Tozer and Marc-Andre Hamelin have recorded the majority of this composer's works, which include his 3rd Piano Concerto, "Ballade." This close friend of Rachmaninoff is well

known for two cycles entitled “Forgotten Melodies,” as well as his nearly 40 Skazki, or “Fairy Tales,” all of which are for solo piano. For 10 points, name this oft-forgotten Russian composer, primarily known for his Opus 25, Piano Sonata, “Night Wind”.

ANSWER: Nikolai Karlovich **Medtner** <TM>
[all music theory clues are from “Night Wind”]

1 Other Fine Arts Visual

A blue-lit scene by this director cuts back and forth from a shot of the protagonist’s face to three glowing triangles in front of her which are revealed to be mirrors as they are approached accompanied by an abrupt change to bright red lighting. This director is spearheading a project of restoring forgotten American regionalist films like *Wild Guitar* and *Spring Night, Summer Night*, a project called ‘By’ this director’s initials. A film by this director opens with a shot of what appears to be a woman with her throat cut, but is revealed to be a high fashion shoot. The sixteen year old protagonist of that film by him lies about her age to get a modeling job with the acclaimed photographer Jack, who covers the body in gold. This director’s jarring use of violence is exemplified by a final scene in which a model eats and eyeball and another in which the protagonist shares a passionate kiss with his lover before stomping on the head of a man in an elevator. In this director’s most acclaimed film, the waitress Irene is romantically pursued by a criminal who wears an iconic scorpion jacket. For 10 points, name this Danish director of *The Neon Demon* and *Drive*.

ANSWER: Nicolas Winding **Refn** <TH>

1 Religion

The erotic imagery of phrases like “to arouse the feminine waters” and “to serve with a living limb” are discussed in Arthur Green’s “Guide to” this text, which features the divine feminine figure Shekhinah who is lusted after by a set of eight disciples. The 3rd century BCE Babylonian Rav Hamnuna Sava appears anachronistically in this text and relates a story about how all the letters of the alphabet approached God before creation and ask to be the first letter used in a holy book. Daniel C. Matt is performing an ongoing translation and commentary of this text in English, whose abridged version is published as *The Book of Splendor*. This text opens with Hizkiyah quoting the Song of Song’s line “Like a rose among thorns, so is my beloved among the maidens” before comparing a rose to a cup of blessing and the Assembly of Israel. Gershom Scholem has referred to this text as a “mystical novel” in his many commentaries on it. Thought this text claims it was written in the 2nd century CE by the mystic Simeon ben Yohai, it was likely actually written by the 13th century Spaniard Moses de Leon. For 10 points, name this exoteric text on mystical Jewish symbolism, a foundational work of Kabbalistic literature.

ANSWER: **Zohar** [accept *Sefer-ha Zohar*] <TH>

1 Social Science - Psychology

Description acceptable. A criticism of this experiment by Robert Spitzer involves the example of drinking a pint of blood. In 2004, Lauren Slater published an account of a similar experiment in *Opening Skinner’s Box*, but was unable to provide evidence of having actually completed the experiment. Participants in this study were instructed to flush any medication they were given down the toilet rather than taking it. All of the participants were classified as having “schizophrenia in remission,” and they presented to doctors claiming to be having hallucinations of voices saying words like “hollow” and “bang.” The results of this study were published in a paper titled “On being sane in insane places.” For 10 points, name this experiment in which mentally healthy participants were admitted to mental hospitals by pretending to be hearing voices.

ANSWER: **Rosenhan** mental hospital study [or the **Thud** study; accept any description involving faking mental illness before “mental hospital” is read] <AS>

CONVERTED bonus

1 Mythology

In his summary of a work named for this place Photius claims that it was home to horses that change colors, vampire-like figures who die in the daytime but live at night, and an Amazon-like tribe called the Artabri. Antonius Diogenes wrote a lost Greek novel named for the wonders beyond this place, in which a group of travelers start in the Black Sea before sailing to this land. Polybius quotes Pytheus's account of this place, which he describes as having properties of air, water, and earth, resembling the material of a jellyfish. Nazi occultist believed that the so-called aryan Race" had its origins in either Hyperborea or this land, which several sources list as a six-days sail north of Britain. In classical literature, distant locations past the borders of the known world were referred to as beyond or *ultima* this place. For 10 points, name this farthest north location in classical cartography, which may correspond to the Orkney Islands, Iceland or Greenland.

ANSWER: **Thule** [accept Ultima **Thule**; prompt on Iceland, Greenland, Orkney Islands, or Ireland by asking for this classical name] <TH>

1 Philosophy

Swedish thinker Anders Nygren is best known for his book on two contrasting types of this thing. Benjamin Bagley compared engaging in this practice with another to the deep improvisation of jazz musicians, where individuals are able to jointly determine their values and identities as they go along. Amelie Rorty describes this concept as an emotion complex that experiences 'historicity'. Portuguese thinker Judah Leon Abravanel is best known for his dialogues concerning this state. In her book on the 'way of' this thing, Luce Irigaray suggests inserting the word 'to' into a commonly used phrase expressing this, thus transferring a subject-object relationship to a subject-subject one mediated by this thing. Competing views on the nature of this concept included the union view, the robust concern view, and this thing as an intense form of valuing. Erich Frome presents this concept as a skill rather than a state of being in his book on the art of it. For 10 points, name this concept that the Greeks divided into types like *philia*, *agape*, and *eros*.

ANSWER: **love** [or **loving**; accept **agape**, **eros** or **philia** before mentioned] (Irigaray suggests saying 'I love to you' rather than 'I love you') <TH>

1 Geography

Description acceptable. They have nothing to do with Bret Harte, but the origin story of one of these things involves a prophetess named Mother Shipton, also known as Ursula Southel, and a local ruler who accepted her challenge to take seven steps forward. The "recumbent" variety of these things generally includes portions either called "flankers" or "portals," depending on the segment of these things where those parts are located. In Basque country, these things are called harrespil, or colloquially, *jentil-baratz*, meaning "pagan-garden," which refers to a race of hairy giants to whom the Basque attribute the creation of these things. Sine Ngayene, Wassu, and Kerbatch are sites that are notable for containing over 2,000 of these things in The Gambia and central Senegal. A replica of the most famous one of these things was constructed by retired construction worker Wally Wallington, who used only simple machines to show how ancient people may have built examples of these things. Modern theories surrounding these things occasionally suggest that they have astronomical significance, but most focus on their role as a place for

healing and for the burial of the dead, including the most famous example, which can be found in Wiltshire, England. For 10 points, name these things which include Stonehenge.

ANSWER: **stone circles** [accept similar answers, such as **rock** for **stone** and **ring** for **circle**; prompt on answers such as rock formations that don't indicate a shape; prompt on stones, rocks, megaliths, boulders, or other similar answers by themselves] <TM>

[Clues from Rollright Stones, Senegambian stone circles and Stonehenge primarily]

1 Other Academic

The Frenchman Stanislas Limousin revolutionized this profession by introducing a color coding system and the use of wafer cachets to it. Members of this profession may use a Strong-Cobb test to gauge the hardness of solid examples of this profession's central objects. Edward Squibb and Charles Rice's work on a 1877 encyclopedia of objects used in this profession reignited interest in it. Members of this profession may consult formularies. To suit the needs of individual clients, members of this profession may engage in compounding, which may involve the off-label use of certain objects. Those wishing to practice this profession in the US must pass the NAPLEX and graduate from a ACPE accredited school. The green cross and the mortar and pestle are widely used symbols for this profession. John Stith Pemberton was working in this profession when he invented Coca-Cola. For 10 points name this type of health professional who focus on safe drug use and may fill prescriptions.

ANSWER: **pharmacist** [accept **pharmacy** technician; accept **apothecary**; accept **chemist** or **druggist**; prompt on medicine] <TH>

Bonuses:

1 American Lit

During one of their Friday afternoon drinking sessions, this character's friend Dave Masters compares the University they work at to a monastery that shelters graduates students from the cruelty of the real world. For 10 points each:

[10] Name this character who spends most of his life as a depressed English professor at the University of Missouri. His flapper wife Edith is unphased by his desperate affair with graduate student Katherine Driscoll.

ANSWER: **William Stoner** [accept either underlined portion]

[10] *Stoner* is a novel by John, an author with this surname, also known for *Augustus*. A contemporary novelist with this name is known for her novel *The Changeling* and her story collection *99 Stories of God*.

ANSWER: **Williams** [accept John **Williams** or Joy **Williams**]

[10] Stoner is often described as a campus novel, another examples of which is *Pnin*, a novel by this Russian emigre.

ANSWER: Vladimir **Nabokov** <TH>

1 British Lit

According to one novel, this character has created a substance called D.M.P. that can extract oxygen in such a manner as to enable whiskey to be produced in a single week. For 10 points each:

[10] Name this author of *Golden Hours* and *The Country Album*. Among this character's more bizarre theories is his belief that the earth is shaped like a sausage.

ANSWER: **de Selby**

[10] De Selby is a fictional philosopher whose works influence the narrator of *The Third Policeman*, a novel by this Irish author of *At Swim Two Birds*.

ANSWER: Flann **O'Brien** [or Brian **O'Nolan**]

[10] In *The Third Policeman*, the narrator notes that the more he travels on one of these vehicles, the more he becomes like it. These vehicles were the subject of a trip described in H. G. Wells's *The Wheels of Chance*.

ANSWER: **bicycle** [or **bike**] <AS>

USED

1 European Lit

In one play, a character's performance of this action is described as "brutal and catastrophic," and that character's nickname of "woof-woof" is made fun of by a couple who call each other "Darjeeling." For 10 points each:

[10] Name this action, which occurs in one play while two couples are meeting to discuss a scuffle between their sons. That performance of this action results in the destruction of a Kokoschka catalogue from the 1953 London exhibition.

ANSWER: she **vomits** [accept synonyms such as she **puke**s, **hurls**, **throws up**, etc.]

[10] Annette vomits up a healthy portion of clafouti during a stressful discussion in *God of Carnage*, a play by this female playwright, who chronicled the destruction of Serge, Mark, and Yvan's friendship over a modern painting in her play *Art*.

ANSWER: Yasmina **Reza** [accept Evelyne Agnes Yasmina **Reza**]

[10] While she has Iranian heritage, Reza has spent her entire life in this country. A different playwright from this country stated that "Hell is other people" in a work focusing on Joseph, Ines, and Estelle.

ANSWER: **France** [accept **French Republic**; accept **Republique francaise**] <TM>

1 World Lit

A Zhuang Zhao novella in the genre detailing the encounters a government official named Chang with two older widows in a secluded mansion is considered the earliest known example of long Chinese fiction. For 10 points each:
[10] Name this genre of the Ming dynasty novel *Jin Ping Mei*, or *The Plum in the Golden Vase*. In that novel, Ximen Qing dies of an overdose of aphrodisiacs administered by one of his six wives, who vie for control within his household.

ANSWER: **erotic** literature [accept **erotica**; accept **pornographic** literature]

[10] The best known Qing dynasty erotic novel is this frequently banned work by Li Yu. In this novel, a Taoist wizard enhances Weiyangsheng's penis by inserting parts of a dog penis into it.

ANSWER: *The **Carnal Prayer Mat*** [or ***Rouptuan*** or ***Huiquanbao*** or ***Jueouchan*** or *The **Before Midnight Scholar***]

[10] A contemporary example of Chinese erotica is Wei Hui's novel named for marrying this figure. In *Journey to the West*, Sun Wukong is imprisoned under a mountain after pissing on the fingers of this figure.

ANSWER: The **Buddha** <TH>

1 Your Choice Lit

Mark Strand translated this poet in the first second of his collection *Looking for Poetry*. For 10 points each:

[10] Name this Brazilian modernist poet who wrote poems like "In the Middle of the Road" and "Don't Kill Yourself". He shares his surname with, but is not related to, the other Brazilian poets Mario and Oswald, the latter of whom wrote *The Cannibal Manifesto*.

ANSWER: Carlos Drummond **de Andrade**

[10] The second section of Strand's *Looking for Poetry* translated several anonymous poems from this language family. Lyrics poetry from this language family was called *harawis*, examples of which were recorded and translated into Spanish by Jorge Basadre.

ANSWER: **Quechua** languages

[10] The final section of *Looking for Poetry* translates the work of Rafael Alberti, a poet belonging to the "Generation" of Spanish writers named for this year, which also included Federico Garcia Lorca.

ANSWER: 1927 [or Generation of '27] <TH>

1 American History

This event began when William Burnley, Alexander Center, and Samuel Roberts nearly got into a fight with a bartender at Martin's Tavern. For 10 points each:

[10] Name this 1826 riot that occurred after West Point cadets attempted to smuggle whiskey across the Potomac for a holiday party.

ANSWER: the **Eggnog** Riot [or the **Grog** Mutiny]

[10] Probably the most famous of the participants in the Eggnog Riot was this cadet from Mississippi who later served as the president of the Confederate States of America.

ANSWER: Jefferson **Davis**

[10] This longest serving attorney general in U.S. history advocated putting the cadets involved in the riot on trial by court marshal. He was also the nominee for the Anti-Masonic party in the 1832 election.

ANSWER: William **Wirt** <AS>

1 World History

When Donduk Kuular came to power in 1924, he instituted a theocratic government centering on this religion. For 10 points each:

[10] Name this religion whose theocracy was overthrown when Salchak Toka led a coup at the 4th Komsomol Congress. After the coup, many of this religions *khurés* were closed and its leaders were stripped of the right to vote.

ANSWER: Tibetan **Buddhism** [accept **Lamaism**]

[10] Buddhism is the most practiced religion in this territory from which the first non-hereditary female head of state, Khertek Anchimaa-Toka, hailed. Before independence, this territory was governed by the Xiongnu, Mongols, and Imperial Russia.

ANSWER: **Tuva** [or **Tyva**; accept People's Republic of **Tannu Tuva**; accept **Tuvan People's Republic**; accept **Tuva Republic**; accept **Tuvan Autonomous Oblast**; accept **Tuva Autonomous Soviet Socialist Republic**]

[10] The Tuvan People's Republic was a short-lived state only recognized by Mongolia and this socialist state. Later, Tuva under Salchak Toka requested to become incorporated into this state whose leaders include Vladimir Lenin.

ANSWER: **Soviet Union** [or **Union of Soviet Socialist Republics**] <JS>

2 European/Canadian/Australian history

This code of law was introduced to Spain by Philip IV in the Auto Acordado, and today it is the only surviving pre-Christian European law code. For 10 points each:

[10] Name this Frankish code of law, introduced during the reign of Clovis I, which contained a provision preventing women from owning property.

ANSWER: **Salic** law [or lex **salia**]

[10] The aforementioned property clause was one of the primary causes of this conflict, which was referred to as King George's War in Europe.

ANSWER: The War of **Austrian Succession**

[10] This French historian commented on Salic law's emphasis on combat in comparison to law codes from other nearby peoples. This leader of the "Doctrinaires" published a 31-volume history of France.

ANSWER: Francois Pierre Guillaume **Guizot** <AS>

University of New South Wales professor Peter Stanley has challenged the idea that this innovation played a significant role in the conflict during which it was invented. For 10 points each:

[10] Name this device improvised by William Scurry, and supported by Pompey Elliott, which used a series of strings and tins in its design. This invention saw its primary use during a theatre that also included the Battle of Gully Ravine.

ANSWER: **drip rifle** [prompt on **gun** for **rifle**; accept **self-firing rifle** or synonyms to that effect; accept "**pop-off rifle**]

[10] The drip rifle saw use during the Gallipoli Campaign of WWI, which took place in this modern-day country, which was then controlled by the Ottoman Empire. The Australian and New Zealand Army Corps, or ANZAC, most famously operated in this modern-day country, where a cove bearing their name remains today.

ANSWER: Republic of **Turkey** [accept **Turkiye** Cumhuriyeti]

[10] A small number of ANZAC troops also saw deployment at the Battle of Passchendaele, which is also known as the third battle of this location. The second battle of this city saw the first use of poison gas by the Germans during WWI.

ANSWER: **Ypres** <TM>

1 Other History

Reportedly, after one of these siblings went blind, the other provided him a diet of 100 oranges and some black bread per week, basing his medical qualifications on their possession of 15,000 medical books. For 10 points each: [10] Name these famously reclusive brothers who secluded themselves in a New York brownstone apartment for decades because they “didn’t want to be bothered.” They were found dead after one of them starved following his brother getting stuck in one of his own booby traps.

ANSWER: **Collyer** brothers [accept Homer Lusk **Collyer** and Langley Wakeman **Collyer**]

[10] Perhaps the most famous recluse in history was this aviation and film magnate, responsible for the growth of Trans World Airlines. Orson Welles’s film *F for Fake* mentions the forged “autobiography” of this man, which was actually written by Clifford Irving.

ANSWER: Howard Robard **Hughes** Jr.

[10] A reclusive mother and daughter of this last name were highlighted in the 1975 documentary *Grey Gardens*. Jackie Kennedy, the niece of the mother with this surname, helped pay for the removal of over 1,000 bags of garbage from their Manhattan home.

ANSWER: **Beale** [accept Edith Ewing Bouvier **Beale** or Edith Bouvier **Beale**] <TM>

USED

1 Biology

A review by J. Wilson and W. Lee examines the difficulty of testing the assumptions and predictions of this theory. For 10 points each:

[10] Name this theory which analyzes plant strategies as a tradeoff between adapting to high-competition, high-stress, and high-disturbance habitats.

ANSWER: **C-S-R** triangle theory

[10] C-S-R is an application of UAST theory which was developed by this ecologist and Simon Pierce. This ecologist wrote the widely cited textbook *Plant Strategies, Vegetation Processes, and Ecosystem Properties* and was the first to articulate the intermediate disturbance hypothesis with a hump-backed graphical model.

ANSWER: J. Philip **Grime**

[10] Grime added the stress axis to this theory to develop C-S-R. This theory named for two letters in the logistic model of population dynamics divides species based on whether their population is stable near carrying capacity or low and growing at an exponential rate.

ANSWER: **r/K** selection theory <JS>

USED

1 Chemistry

In this paradigm, building blocks are used to synthesize a collection of compounds called a library, which can be scaffold-based or backbone-based. For 10 points each:

[10] Name this paradigm of chemistry that utilizes high throughput techniques to prepare many different compounds at the same time.

ANSWER: **combinatorial** chemistry

[10] This combinatorial chemistry technique developed in 1985 by Houghten et al. combines parallel and split-pool syntheses. In this technique, each container is deprotected and washed before being sorted into groups, with each group getting a different amino acid added to the peptide chain.

ANSWER: **Tea-Bag**

[10] Combinatorial chemistry has been used to design and optimize these substances whose metabolism by the body is studied in pharmacokinetics.

ANSWER: **drugs** [or **medicines**; accept **medications**; accept **prescriptions**; accept any specific kind like **antibiotics**] <JS>

1 Physics

By integrating over poles at ω equals plus or minus c times k using Cauchy's theorem, one can show that the Green's function for this differential equation is the retarded Green's function. For 10 points each:

[10] Name this differential equation used in electrodynamics whose basic form in cgs units sets the d'Alembertian of a scalar field equal to negative four π times a source distribution.

ANSWER: **time-dependent wave** equation [or **inhomogeneous** electrodynamic **wave** equation or **nonhomogeneous** electrodynamic **wave** equation; prompt on **wave** equation]

[10] The relationship between this vector field and the current density is given by a time-dependent wave equation derived from Maxwell's equation. The curl of this vector field is the B field.

ANSWER: **A** field [or magnetic **vector potential**]

[10] Using this gauge, it can be shown that the source of the A field is only the part of the current whose divergence is zero. A nice consequence of this gauge is that the part of the electric field generated by charges is conservative and the part generated by magnetic fields is solenoidal.

ANSWER: **Coulomb** gauge [or **transverse** gauge] <JS>

USED

1 Computer Science

For 10 points each, answer the following about the design of embedded systems.

[10] Tokens transferred between places control the execution of these models that are a natural fit for concurrent, nondeterministic systems. The "Colored" variety of these models are used by the embedded systems community.

ANSWER: Colored **Petri nets** [or **CPNs**; accept **place/transition nets**, **condition/event nets**, **predicate/transition nets**, or **hierarchical Petri nets**]

[10] In addition to functional requirements, embedded systems must also satisfy non-functional constraints like ensuring real time and being efficient in this quantity. This quantity is the rate at which a device consumes energy.

ANSWER: **power**

[10] A design's correctness is rigorously proved in this process. Means by which to carry out this process include model checking, equivalence checking, and automated theorem proving.

ANSWER: formal **verification** [accept **validation**; do not accept "post-silicon validation" as that is not a formal, mathematical process] <JS>

1 Other Science

This scientist's technical drawings from recorded SONAR data revealed that the ocean floor was not flat. For 10 points each:

[10] Name this scientist who worked with Bruce Heezen to map the ocean floor. She famously quipped "I am too busy making maps, so I let them argue" in reference to geologists' slow adoption of her work supporting plate tectonics.

ANSWER: Marie **Tharp**

[10] Heezen himself studied how these phenomena broke telegraph cables after the 1929 Grand Banks earthquake. Gravity drives these masses of sediment-laden water which erode submarine canyons.

ANSWER: **turbidity currents**

[10] The shaping of continental rises by these currents was also studied by Heezen. Sediment is deposited on continental rises by turbidity currents flowing down the continental slope and these currents flowing along the slope.
ANSWER: **contour** currents <JS>

1 Painting/Sculpture

One example of this type of specific event occurred in Mundelsheim, Germany, and involved a work known as “Woman with Four Breasts.” For 10 points each:

[10] Name this type of specific event, which occurred to a Hungarian named Mihaly Gubis. A more famous event of this kind occurred in 2006 to Luis Jimenez, and featured a piece that is currently located at Denver International Airport.

ANSWER: someone being **killed** by **their own sculpture** [provide generous prompts, but all three parts are necessary in some equivalent form]

[10] As Gwendolyn Brooks stated, “Art hurts.” This man’s sculpture *Descent into Limbo*, which consists of a rather obvious black, 8-foot hole in the ground, illustrated that fact after a goober fell into it. He is also known for his incomplete humongous public art exhibit, the Tees Valley Giants.

ANSWER: Anish **Kapoor** [accept Sir Anish Mikhail **Kapoor**]

[10] In 1991, a Christo exhibit involving many golden examples of these objects was closed after high winds caused one to crush a California woman. Many people can be seen holding black examples of these objects in Childe Hassam’s *The Avenue in the Rain*.

ANSWER: **umbrellas** <TM>

1 Classical Music

A concerto for two of these instruments and percussion was written by Nikolai Kapustin, a contemporary composer who utilizes his “written improvisational” style in his performances on this instrument. For 10 points each:

[10] Name this instrument, for which a set of *Pleiades Dances* were written by Takashi Yoshimatsu. Yoshimatsu also wrote a concerto for this instrument, subtitled “Memo Flora,” whose three movements are titled “Flowers,” “Petals,” and “Bloom.”

ANSWER: **piano** [accept **pianoforte**, but do NOT accept or prompt on “fortepiano”]

[10] Kapustin has been nicknamed the “Soviet [this composer],” referencing their jazzy idioms in a classical setting. This American pianist was well known for his Piano Concerto in F, but has gained more fame for a work that opens with a prominent clarinet glissando.

ANSWER: George Jacob **Gershwin** [accept Jacob Bruskin **Gershowitz**]

[10] In 2010, Yoshimatsu released a concerto for this other instrument, entitled “Bird Rhythmics.” Abe’s (AH-bays) *Frogs*, Stout’s *Two Mexican Dances*, and Peters’s *Yellow After The Rain* are key works in this instrument’s repertoire, which possesses wooden keys, but unlike a smaller cousin, is played with far softer mallets.

ANSWER: **marimba** [do NOT accept or prompt on “xylophone”; I suppose you can prompt on **balafon**, although this question is written from a classical perspective] <TM>

1 Other Fine Arts

Yass ('JAH-ss'), a fusion style of jazz that incorporated elements of punk rock and techno, developed in this country on the backs of such artists as Milosc and NRD. For 10 points each:

[10] Name this country of origin of the 1965 avant-garde album *Astigmatic*, an album by a composer known for his scores to *Knife in the Water* and *Cul-de-Sac*.

ANSWER: **Poland**

[10] The aforementioned bandleader and film composer Krzysztof Komeda plays this instrument also played by avant garde bandleaders Cecil Taylor and Keith Jarrett.

ANSWER: **piano** [accept **synthesizer** or **keyboard**]

[10] Another acclaimed Polish jazz album is one named for a purple one of these things by the Tomasz Stanko Quintet. This word precedes 'Ra' in the stage name of a pianist and bandleader known for his album *Space is the Place*.

ANSWER: **sun** [accept *Purple **Sun***; accept **Sun** Ra] <TH>

1 Religion

The *Ma'alim fi al-Tariq* uses this word to refer to the "extinction" of mainstream Islam, claiming that all those beside a vanguard few who claims Islam as their religion are actually *kafirs*. For 10 points each:

[10] Give this Arabic term that refers to the act of calling another Muslim an apostate. The book *Milestones* popularized using this word to refer to the emptiness of modern Islamist governments.

ANSWER: **takfir** [accept **takfirism**]

[10] *Milestones* was written by this intellectual father of Islamic extremism who was executed in 1966 for plotting the assassination of Gamal Nasser. He is also known for his 30 volume *In the Shade of the Qur'an*.

ANSWER: Sayyid **Qutb**

[10] Qutb's view that the entire Muslim world had fallen into *jahiliyyah* or disbelief is often used by extremist groups to justify the "greater" type of this process of struggling, which is often described as a holy war.

ANSWER: **jihād** <TH>

USED

1 Philosophy

For 10 points each, answer the follow about philosophers who wrote about conservatism:

[10] This British philosopher, who is known for his criticism of utopianism, described the title ideology as "to prefer the familiar to the unknown" in his essay "On Being Conservative."

ANSWER: Michael **Oakeshott**

[10] This German-American philosopher is often considered the "father of neoconservatism." His works include *Persecution and the Art of Writing* and *Thoughts on Machiavelli*.

ANSWER: Leo **Strauss**

[10] This author of *The Road to Serfdom* argued against the conservative position in his tract "Why I Am Not a Conservative."

ANSWER: Friedrich August von **Hayek** <AS>

1 Social Science - Economics

This economist argued that because wages, regulations and protectionist policies are all shaped by political factors, there is truly no such thing as a “free market” in his 2011 book *23 Things They Don't Tell You About Capitalism*.

For 10 points each:

[10] Name this Korean economist who has acted as advisor to for Ecuadorian president Rafael Correa. He wrote about how all developed countries used interventionist policies to attain prosperity while forcing *laissez-faire* positions on presently developing nations in his book *Kicking Away the Ladder*.

ANSWER: Ha-Joon **Chang**

[10] In *23 Things They Don't Tell You About Capitalism* discounts the claim that increasing the level of this thing leads to greater growth for developing nations, citing differing rates of this in Taiwan and the Philippines. Increasing the amount of this thing is the classic example of increasing human capital.

ANSWER: **education** level [prompt on literacy rate]

[10] The aforementioned book also discusses the “myth” of an age described by this term, which refers to knowledge based economies that have foregone manufacturing. This two word term was coined by Alain Touraine.

ANSWER: **post-industrial** society or age <TH>

1 Myth

The names of these two mythological figures translate as “thought” and “memory.” For 10 points each:

[10] Give the names of these two ravens from Norse mythology who fly across the world each day and deliver news to their owner, who sometimes worries they may not return.

ANSWER: **Huginn** and **Muninn** [accept in either order; prompt on, but do not otherwise reveal, Odin's ravens]

[10] Hugin and Muninn belonged to this chief god of the Norse pantheon. He hung himself from his spear for 9 days to learn the secrets of the runes.

ANSWER: **Odin** [or **Woden** or **Wotanaz**]

[10] Huginn and Muninn appear in this poem from the *Prose Edda*, which begins with a 54-verse monologue from the title character. At the end of this poem, Agnarr becomes king after the death of his father, King Geirroth.

ANSWER: **Grimnismal** [or **Sayings of Grinnir**] <AS>

1 Other Academic

This specific action, which infamously occurred during a performance by the Sinfonia Galicia, may have been inspired by one action that takes place in the “Mambo” section of Bernstein’s *Symphonic Dances from West Side Story* For 10 points each:

[10] Name this controversial decision to amend a famous piece of classical music by Rimsky-Korsakov, and the man who made that choice. Described as looking like “God conducting the vastness of the universe,” I think the man who made this decision looks rather like Santa Claus.

ANSWER: Leif **Segerstam’s** choice to add **yelling** to the end of Rimsky-Korsakov’s *Scheherazade* [all three parts needed in some capacity; accept words with similar meanings to **yelling**; prompt on partial answer]

[10] While conductors occasionally do things that go against traditional classical music protocol, audiences are often far worse. While debate rages over this issue, it is generally agreed that a common newcomer faux pas involves performing this action between individual movements of larger works, rather than at the conclusion of a piece that one has enjoyed.

ANSWER: **clapping** [accept synonyms, such as **applause** or **cheering**, but not words that are negative, such as **jeering** or **booing**]

[10] A different disapproved concert-going action is this one, which a German study determined to occur twice as much during concerts as it does in real life. Fed up with this action during a performance of Mahler 9, Michael Tilson Thomas threw a handful of lozenges into the audience to hopefully curb its occurring.

ANSWER: **coughing** (just for clarification, this is specifically during the actual occurrence of music; it’s generally recommended to cough between movements) <TM>

READ ANYWAY

1 Other Academic

William Berg has translated an ancient Greek set of these texts called the *Philogelos*, one entry of which is ‘A miser writes his will and names himself the heir’. For 10 points each:

[10] Name these texts collected by Poggio Bracciolini in the Renaissance anthology *Facetiae*. One of these from that collection involves a man carrying a door to church after being told to ‘get the door’.

ANSWER: **jokes** [accept **jokebooks**]

[10] The Westcar Papyrus records one of the world’s oldest known jokes, which involves one of these people chasing a bunch of women clad in fishing nets down the Nile. The Pyramid texts were located in the tombs of these people.

ANSWER: Ancient Egyptian **pharaohs**

[10] This 18th century Shakespearean actor names a popular anthology of ‘jests’ published after his death by John Mottley. This friend of William Hogarth is mentioned by Scrooge in *A Christmas Carol*.

ANSWER: Joe **Miller** <TH>