

Tossups

1. This author wrote about Brother Theobald, who was told by God to move his congregation from San Jose to Murfreesboro, Tennessee to escape an earthquake, in “Notes Toward a Dreampolitik.” In another work, this author claimed to be playing the part of Margaret in “Spring and Fall” by reminiscing about Sacramento. This author wrote about visiting the set of *The Sons of Elder Katie* in “John Wayne: A Love Song,” an essay included in a section titled “Life Styles in the Golden Land.” The opening line of one of this author’s essays inspired the title of her anthology *We tell ourselves stories in order to live*. She described visiting Haight Street in San Francisco during 1967 in an essay named for a Yeats quote. For 10 points, name this American essayist of *The White Album* and *Slouching Towards Bethlehem*.

ANSWER: Joan **Didion**

2. The Letter of Aristeas is a primary source for one religious event in this city. An influential treatise on the Holy Spirit was written by one Christian theologian from this city, Didymus the Blind. A Jewish scholar from this city was one of the first to use the term “logos” to refer to the creative principle of god. Another theologian from this city was condemned for his support of Eutyches. That man, Dioscorus, was deposed as bishop of this city by the Council of Chalcedon. One ruler based in this city summoned 72 scholars to translate a text, each of whom produced an identical Greek version of the Hebrew Bible. Christian mobs in this city murdered Hypatia and destroyed the Serapeum, while an early bishop of this city was the chief opponent of the Arians. For 10 points, name this city home to St. Athanasius, located in Egypt and home to a Great Library.

ANSWER: **Alexandria**

3. This ruler spent seven years financing the alchemy experiments of Father John Damian, who famously broke his leg attempting to fly from a castle window. He came to power after his father was killed at the Battle of Sauchieburn. This king purchased the “Great Michael”, the largest warship of its time, for his reformed navy. This king signed the Treaty of Perpetual Peace with his southern neighbor, an agreement he violated just over a decade later. This ally of Louis XII of France was excommunicated by Pope Leo X for invoking the Auld Alliance and declaring war on Henry VIII, which would result in the largest battle ever fought between England and Scotland. For 10 points, name this King of Scotland who died at the Battle of Flodden Field.

ANSWER: **James IV** of Scotland [prompt on **James**]

4. This rule is usually followed in complexes with strong pi acceptors, and accounts for the stability of many hexacarbonyl compounds. It cannot be exceeded by tetrahedral complexes, and deficient complexes can be made with bulky ligands. Counting the entities involved can be done by the donor pair method or by the neutral ligand method. Compounds that obey it tend to be less reactive, though platinate metals commonly form stable square planar compounds that are electron deficient according to this rule. Proposed by Irving Langmuir, it has been observed that more complexes violate this rule than obey it. It is analogous to a rule by Lewis, with the added consideration of filling a d orbital. For ten points, name this rule that predicts stability for transition metal complexes with a full valence shell.

ANSWER: **18 electron** rule

5. In a series of papers collected under the title *Culture and Value*, Wittgenstein wrote that these phenomena are “gestures” accompanied by symbolic occurrences. John Earman has constructed a Bayesian characterization of the most famous argument about these concepts, holding that the best-known work about them is an “abject failure.” In a 1968 paper partially devoted to the refutation of an argument by Anthony Flew, Roger Swinburne argued that there could exist sufficiently strong historical evidence for these phenomena. The most famous argument against these phenomena establishes that “uniform experience” is a “direct and full proof” against them,” which “cannot be destroyed... but by an opposite proof which is superior,” and concludes that “mere reason” or personal testimony is insufficient to ever convince one of the truth of Christianity. For 10 points, identify these phenomena defined in Chapter 10 of Hume’s *Enquiry Concerning Human Understanding* as a “transgression of a law of nature by a particular volition of the Deity.”

ANSWER: miracles

6. One of Leonard Bernstein’s Young People’s Concerts compares a melody from this symphony’s first movement to a person yelling “I want it! I want it!” This symphony’s second movement, an Andantino in the mode of a canzona, opens with a melancholy B flat minor oboe solo. Its third movement includes a notoriously difficult piccolo solo, and features strings playing entirely pizzicato. The fourth and final movement of this F minor symphony begins with an energetic orchestral flourish before quoting the Russian folk song “In the Field a Birch Tree Stood.” The composer of this symphony dedicated it to his patron, Nadezhda von Meck, and wrote a program explaining that its opening thematic brass fanfare represents the inexorable power of fate. Premiered in 1878, and written during the traumatic breakdown of its composer’s marriage to Antonina Milyukova, for 10 points, name this symphony by Tchaikovsky.

ANSWER: Pyotr Tchaikovsky’s symphony no. 4

7. One of this author’s plays includes a passage about a second *Argo* sailing past the ocean’s known bounds, which Christopher Columbus interpreted as a prophecy about the discovery of the New World. Another of this author’s plays ends with a father attempting to put the pieces of his son’s dead body back together after a messenger describes how that son’s chariot was brutally attacked. Yet another of his plays depicts an unnatural grove as a *locus horridus* where Atreus kills the children of Thyestes. English revenge tragedies imitated this author’s plays by being divided into five acts and including a ghost. He wrote “Things that were hard to bear are sweet to remember” in his play about the madness of Heracles, *Hercules Furens*, and recommended daily self-examinations of a person’s conscience in his treatise on anger, *De Ira*. For 10 points, name this Silver Age Roman author of bloody tragedies, a Stoic philosopher who also tutored Nero.

ANSWER: Seneca the Younger [or Lucius Annaeus Seneca]

8. One thinker with this last name wrote a book which uses the steamboat that smashes Huck and Jim’s raft as an example of the recurring symbol of technology breaking up an idyllic landscape in American literature. That thinker with this last name explored the tension between the Industrial Revolution and the American “pastoral ideal” in his book *The Machine in the Garden*. An economist with this surname explained how money transformed the formula C-M-C to M-C-M in his analysis of the circulation of commodities. That economist developed the “Immiseration Thesis,” and argued that the increase in constant capital compared to variable capital causes the rate of profit to tend to fall over time. This last name is shared by American Studies pioneer Leo and an economist who divided society into an economic base and an ideological superstructure. For 10 points, identify this last name of a German economist who outlined his labor theory of value in *Das Kapital*.

ANSWER: Marx

9. One of this man's movies featured an extended sequence where he stands on the shoulders of members of the Flying Escalantes to go between buildings. One film by this star of "Neighbors" has him chased around the deck of a ship by a miniature cannon, and also sees him stuck running in the wheel of a steam ship. He played a man who is reunited with his love interest, Annabelle Lee, after foiling the plot of Captain Anderson, and his debut role was in *The Butcher Boy* alongside Fatty Arbuckle. In one of his best known roles, his seat starts moving as the title train accelerates. This "Great Stone Face" starred in feature films like *The Navigator* and *Sherlock, Jr.* One of his characters runs in panic after he miraculously avoids harm after a cyclone blows off the facade of a house he's standing in front of in the short, "Steamboat Bill, Jr." For 10 points, name this silent film star of *The General*.

ANSWER: Buster Keaton [or Joseph Frank Keaton]

10. One construct due to this person provides the differential equations of motion for a system point in configuration space; that object results from considering the time and coordinate variations of the path integral of the square root of the difference of the Hamiltonian and potential. This scientist co-names an equation whose solution is known as Hamilton's principal function. The vanishing of the sum of cyclically permuted, nested Poisson or Lie brackets of three quantities is known as his namesake identity. A quantity named for this man must be non-zero for a continuously differentiable multivariate function to be invertible. For 10 points, identify this man who names the matrix of first derivatives of vector-valued functions.

ANSWER: Carl Gustav Jacob Jacobi

11. This city's legendary kingship was under a group known as the Bacchiadae, whose scion Demaratus allegedly fathered Tarquinius Priscus. One leader of this city received his name because his crippled mother Labda concealed him in a chest to avoid execution, and a government of eight leaders and an 80-man council ruled this city after the expulsion of the Cypselid tyranny. Greek Sicily was liberated from the Carthaginians in the 4th century BC by Timoleon, a leader from this city. This city was part of the Quadruple Alliance formed against Sparta during an eponymous 4th century war. Alexander the Great's control over Greece was exacted by means of a puppet league named after this city. Squabbles with its colony Corcyra were a contributing factor in starting the Peloponnesian War. For 10 points, name this Greek city ruled once by the cruel Periander, whose Diolkos roadway connected its ports on the Ionian and Aegean seas.

Answer: Corinth

12. One of this author's poems claims that "the poet" is made uneasy by "statues which so obviously doubt his antimythological myth." This author wrote that "the best and worst of us" were tempted by the "oceanic whisper" "I am the solitude that asks and promises nothing" in a poem about "the one landscape that we, the inconstant ones, are consistently homesick for." He modernized an example of classical *ekphrasis* in a poem whose title object depicts "an artificial wilderness and a sky like lead" instead of "marble well-governed cities and ships upon untamed seas." This author wrote a poem lamenting "Pour away the ocean and sweep up the wood / For nothing now can ever come to any good," as well as the longer poems "In Praise of Limestone" and "The Shield of Achilles." For 10 points, name this English poet, who wrote "Stop all the clocks, cut off the telephone" in his "Funeral Blues."

ANSWER: Wystan Hugh Auden

13. In *The Raw and the Cooked*, Claude Lévi-Strauss describes how instances of this phenomenon prompt the people of the Yukon to turn over cooking receptacles. In Fon mythology, they signal bouts of lovemaking of Mawu and Lisa. In Hindu belief, these phenomena are produced by the body and immortal head of a decapitated asura, respectively known as Ketu and Rahu. In Norse myth, some of these phenomena occur when Arvak and Alsvid run too slowly, placing a daughter of Mundilfari in danger from Sköll. In Shinto myth, one of these events ended when Uzume's dancing lured Amaterasu out of a cave, returning light to the world. For 10 points, name this type of event, exemplified at Ragnarok by two wolves swallowing Mani and Sol, or the moon and sun.

ANSWER: eclipses [accept lunar eclipses before "head"]

14. Last month, the nation of Malawi threatened to take legal action against this organization, calling this organization's new anti-smoking campaign a violation of international law. Any part of this organization can have its finances examined by the Court of Auditors. Catherine Ashton and Herman von Rompuy hold major offices in this organization. Recent changes to this organization include the creation of a High Representative for Foreign Affairs and a President of its Council. Those changes, as well as bicameralism and qualified majority voting, were adopted in 2007 at Lisbon. This organization's most powerful body is headed by Jose Barroso and is called the Commission. For 10 points, name this international organization that won the 2012 Nobel Peace Prize, created by the Treaty of Maastricht.

ANSWER: **European Union** [or **EU**]

15. FCC lattices generally display the type of twinning named for this process. In a glass, the condition by this name corresponds to a viscosity of ten to the 13 poise and is the standard point between the strain and softening points. In crystals, ductility and tensile strength are opposite-parity sigmoidal functions of the temperature at which this occurs, because the resulting grain size is proportional to its temperature. The three regimes of this procedure are recovery, grain growth, and recrystallization; the so-called cold-work regime lies below it. For 10 points, give this term for a heat treatment designed to change the microstructure of a material, often by removing built-up stresses.

ANSWER: **annealing**

16. This man used the pseudonym "A Citizen of America" when writing articles favoring the adoption of the Constitution. This man fought a 1797 pamphlet war against Peter Porcupine, despite both being Federalists, sparked by this man's support of the French Revolution. This founder of the American Minerva newspaper wrote a short explanation of the Constitution called the "Federal Catechism," intended for children. This man was a major lobbyist for the Copyright Act of 1831. One book by this man is nicknamed for its blue backing. A biography of this man by Joshua Kendall called him "the Forgotten Founding Father." In his most famous work, this man reversed the order of some e's and r's and used words like "skunk." For 10 points, name this author of the first American English dictionary.

ANSWER: Noah **Webster**

17. Two women with long, fleshy legs engage in this activity in a series of paintings inspired by watching television by Willem de Kooning. Fauvist Kees van Dongen painted a profile picture of a woman named Modjesko engaging in this activity. A painting titled for this activity contains a fern that juts out from the left-hand side and shows Weda Cook wearing a pink dress; that painting was by Thomas Eakins. The legs of a dead bird hang out of a wicker basket to the left of a group of men performing this action in an egg in a copy of a Hieronymus Bosch painting. A woman holds up her arm to prominently display a black glove in front of a green and orange striped wall in an Edgar Degas painting depicting this activity. Luca della Robbia and Donatello both created balconies for the Florence Cathedral titled for angels engaging in this activity. For 10 points, name this activity depicted on *Cantorias*.

ANSWER: **Singing** [accept things like performing a **concert** or producing **music**]

18. Opponents of this event used the slogan "Capture the Snakes!" During this event, a conspiracy of junior military officers called the Reform the Armed Forces Movement, or RAM, unsuccessfully attempted to bomb the presidential palace. The Radyo Bandido radio station was established during this event, after the government shut down the Catholic-run Radio Veritas, which had been used by Cardinal Jaime Sin to mobilize participants in this event. Rebels during this event wore yellow ribbons, and staged a rival presidential inauguration where they swore in the widow of Benigno Aquino, whose assassination at an airport sparked this event. Marked by massive but non-violent demonstrations in Quezon City, for 10 points name this 1986 revolution that overthrew Ferdinand Marcos in the Philippines.

ANSWER: **People Power** Revolution [or **EDSA** Revolution; accept **Yellow** Revolution until mentioned; accept **"Overthrow"** of Ferdinand **Marcos** until mentioned]

19. So-called "nonclassical" types of these substances include resolvins and hepoxilins. Some of these substances are bonded to the amino acid cysteine, and are involved in bronchoconstriction. Another family of these compounds all have a six-membered ether ring and are involved in platelet aggregation. These substances are made by the action of either lipoxygenase or cyclooxygenases on arachidonic acid, and these substances also include a group that signal a wide variety of inflammatory responses. Synthesis of these compounds can be inhibited by NSAIDs such as aspirin. For 10 points name this family of substances that include leukotrienes, thromboxanes, prostacyclin, and prostaglandins, all of which derive from fatty acids with twenty carbons.

ANSWER: eicosanoids [accept leukotrienes before "ether"]

20. At the end of this novel, its main character attempts to write a play set in the Middle Ages about a fanatical whore who fornicates at the foot of an altar out of contempt for Heaven. Its main character invents the word "Kuboa" inside of a prison cell after falsely claiming that his name is Andreas Tangen. The protagonist of this novel sits on a park bench and mechanically writes the year 1848 on a sheet of paper, causing him to be turned away from a job when he unthinkingly puts down 1848 as his year of birth on the application. Its main character visits an editor and unsuccessfully attempts to sell his essay about Correggio, and finally leaves his city on a Russian ship bound for England. First published in 1890, this novel is narrated by a feverish young writer who tries to pawn the buttons on his coat to survive. For 10 points, name this novel about a man wandering the streets of Christiania in the throes of the title condition, the first novel by Knut Hamsun.

ANSWER: Hunger [or Sult]

Bonuses

1. This man's most infamous idea came to him when he was playing with magnets as a six year old and noticed that they repelled each other. For 10 points each:

[10] Name this man who finished university in Mecca at age 18, and set about his evil plan of creating white people.

ANSWER: Doctor **Yakub**

[10] The Nation of Islam teaches that Dr. Yakub invented white people on this island, which is most likely where the Book of Revelation was written.

ANSWER: **Patmos**

[10] Dr. Yakub was a descendant of this other scientist, who 50,000 years ago led his namesake tribe from the Middle East into Central Africa, where they evolved into modern black people.

ANSWER: **Shabazz**

2. This time period is also known as the lunar cataclysm, as evidence for it is largely based on analysis of impact-melt moon rocks. In the Nice model, it results from the sweeping out of Trojan planetesimals as Jupiter and Saturn achieve resonance, well after the rocky planet accretion period. For 10 points each:

[10] Name this apparent increase in the frequency of impactors beginning roughly 4 billion years ago.

ANSWER: the **late heavy bombardment**

[10] Coincident with the late heavy bombardment is this first Earth eon. Rocks from this eon are rare, which is due to the Earth being molten and hellish according to conventional wisdom.

ANSWER: the **Hadean** eon

[10] This second lunar period is coincident with the end of the late heavy bombardment and Hadean eon. Named for a large basin, its major event was the formation of the lunar crust.

ANSWER: the **Nectarian** period

3. This band split with bass player Miroslav Vitous before recording its 1974 album *Mysterious Traveller*. For 10 points each:

[10] Name this jazz fusion band led by Wayne Shorter and Joe Zawinul. It recorded the jazz standard "Birdland" and constantly changed its lineup during the 1970s and '80s.

ANSWER: **Weather Report**

[10] This electric bass player known for his distinctive growl joined Weather Report in 1976, and played with them until the early '80s. He released the album *Word of Mouth* and called his fretless 1962 Fender Jazz Bass the "Bass of Doom."

ANSWER: Jaco **Pastorius**

[10] Weather Report also released the album *Sportin' Life*, which is named for a character from this George Gershwin opera set in Catfish Row.

ANSWER: **Porgy and Bess**

4. In 1241, this author was assassinated on the orders of Norwegian king Haakon IV. For 10 points each:

[10] Name this Icelandic poet, who is often thought to be the author of *Egil's Saga*. He collected the stories of Norse mythology in the *Prose Edda*.

ANSWER: Snorri **Sturluson** [or **Snorri** Sturluson]

[10] This book by Snorri recounts the history of Norway from its legendary foundations to the late 12th century. Almost all of its sagas describe the rule of kings such as Harald Hardrada and St. Olaf.

ANSWER: **Heimskringla**

[10] The *Heimskringla* begins with this saga, a prehistory which details how the Aesir arrived in Scandinavia. It also describes how Freyr founded the title legendary Swedish dynasty.

ANSWER: **Ynglinga saga**

5. In the 1360's, this polity captured Kiev and expanded its power all the way to the Black Sea. For 10 points each:
[10] Name this polity that entered a 1385 dynastic union with its southern neighbor at Krewo under Grand Duke Jogaila, founder of the Jagiellon Dynasty.

ANSWER: (Grand Duchy of) **Lithuania**

[10] The Lithuanians won this great 1362 victory against the Golden Horde, leaving Lithuania in charge of much of what is now the Ukraine.

ANSWER: Battle of **Blue Waters**

[10] Under Grand Duke Vytautas the Great, Lithuania allied with this Mongol leader, who reunified the Blue and Golden Hordes. Unfortunately for Lithuanian influence in Central Asia, this man was soundly defeated by his rival, Tamerlane.

ANSWER: **Tokhtamysh**

6. These substances can be formed by the oxidation of alkenes with osmium tetroxide. For 10 points each:

[10] Name these compounds which contain two hydroxyl functional groups.

ANSWER: **diols** [or **glycols**]

[10] Used in a critical step in the synthesis of the cancer drugs irinotecan and topotecan, this dihydroxylation reaction modifies the osmium tetroxide with diastereomeric ligands to produce an enantiopure diol. It built on the earlier racemic Upjohn method.

ANSWER: **Sharpless** asymmetric dihydroxylation or Sharpless AD

[10] This vicinal diol gives its name to a reaction that couples carbonyl compounds using a ketyl radical mechanism usually initiated by reaction with magnesium. It may be prepared through that reaction itself via the homocoupling of acetone.

ANSWER: **pinacol** [or **2,3-dimethyl-2,3-butanediol**; or **tetramethylethylene glycol**]

7. A potbellied man in a pink coat wears a bucket on his head and plays a mandolin in the bottom left of this work, while several figures on the right of this painting have ash marks on their foreheads. For 10 points each:

[10] Identify this painting where a fat man riding a barrel and an emaciated figure being pushed on a blue chair engage in the titular jousting contest.

ANSWER: *The **Battle Between Carnival and Lent***

[10] *The Battle Between Carnival and Lent* was painted by this artist of *Children's Games* and *Netherlandish Proverbs*.

ANSWER: Pieter **Bruegel** the Elder

[10] A skinny-looking Michael wearing a golden suit of armor stands in the center of this Bruegel battle scene. Grotesque monsters decorate this Bosch-like canvas.

ANSWER: *The **Fall of the Rebel Angels***

8. This work begins by arguing that since every truth is as true as any other truth, this state of affairs would be impossible unless there were only "one mediating principle in all knowledge." For 10 points each:

[10] Identify this work, published in 1800, which attempted to trace the evolution of the thinking subject through the "absolute I" coming to know itself.

ANSWER: **System of Transcendental Idealism** [or **System des transcendentalen Idealismus**]

[10] *System of Transcendental Idealism* was written by this German philosopher and erstwhile friend of Fichte.

ANSWER: Friedrich Wilhelm Joseph von **Schelling**

[10] Schelling's work became known to the English speaking world mostly through the efforts of this philosopher, who drew heavily on Schelling's *Naturphilosophie* in writing his *Biographia Literaria*.

ANSWER: Samuel Taylor **Coleridge**

9. For 10 points each, name these authors who wrote about Native Americans.

[10] In her colonial bestseller *The Sovereignty and Goodness of God*, this Puritan described how she was abducted and held captive by Native Americans during King Philip's War.

ANSWER: Mary **Rowlandson**

[10] This poet used the ethnography of Henry Schoolcraft as the basis for his epic poem about a legendary Native American leader, *The Song of Hiawatha*.

ANSWER: Henry Wadsworth **Longfellow**

[10] This 19th century Native American activist described his upbringing in his autobiography *A Son of the Forest*. He lambasted white people for professing to believe in Christianity while attacking and displacing Native Americans in his essay "An Indian's Looking-Glass for the White Man."

ANSWER: William **Apess**

10. For 10 points each, name these authors of books analyzing the American school system.

[10] This pragmatist inspired modern progressive education with his 1916 book *Democracy and Education*.

ANSWER: John **Dewey**

[10] A proponent of "unschooling," this teacher showed how elementary school students learned to be afraid of giving teachers wrong answers in his seminal study *How Children Fail*.

ANSWER: John **Holt**

[10] This author recounted the inequality of the Boston Public School system in his first book, *Death at an Early Age*. He attacked the racial and economic segregation of America's modern schools in his books *The Shame of the Nation* and *Savage Inequalities*.

ANSWER: Jonathan **Kozol**

11. Under the terms of this treaty, Austria was forced to recognize the Cisalpine Republic, in exchange for gaining control of Venice. For 10 points each:

[10] Name this 1797 treaty signed by Napoleon Bonaparte after his successful campaign in Northern Italy.

ANSWER: Treaty of **Campo-Formio**

[10] In 1805, Napoleon had this ancient object – dating back to a certain Dark Age tribe – placed on his head, thereby declaring himself King of Italy.

ANSWER: **Iron Crown** of Lombardy [prompt on "Lombard Crown"]

[10] The Kingdom of Italy was in effect ruled by this man, Napoleon's stepson from his first wife, Josephine, who served as Viceroy.

ANSWER: **Eugene** de Beauharnais

12. A corollary of Kasha's rule dictates that the numeric efficiency of this process is independent of the spectrum of the exciting radiation. It results from singlet-to-singlet decays and therefore has a shorter lifetime than a related process. For 10 points each:

[10] Name this process in which some materials, after having electrons promoted by absorbed light, re-emit light of a slightly different wavelength.

ANSWER: **fluorescence**

[10] Specifically, the Kasha-Vavilov rule states that this quantity is independent of the frequency of the exciting light. This quantity is defined as the number photons emitted divided by the number absorbed.

ANSWER: **quantum yield** [or **quantum efficiency**; prompt on **yield**; do not accept or prompt on "efficiency"]

[10] This is the name for the change in wavelength between the absorbed and emitted photons in fluorescence. It occurs because of non-radiative decay mechanisms, which cause the decay to be different from the promotion is general.

ANSWER: **Stokes shift**

13. This symphony's final chord consists of all twelve pitches played at once, imitating a sardonic Bronx cheer. For 10 points each:

[10] Name this five-movement symphony, which was written in 1901, but not premiered until 1951. Its second movement quotes the songs "Wake Nicodemus" and "Bringing in the Sheaves," and its final movement climaxes with a boisterous quotation of "Columbia, the Gem of the Ocean."

ANSWER: Charles Ives Symphony no. 2

[10] Ives's second symphony also quotes this composer's song "Old Black Joe." Christy's Minstrels specialized in performances of this composer's songs, such as "Old Folks at Home" and "Camptown Races."

ANSWER: Stephen Foster

[10] This renowned interpreter of Ives conducted the recording *Charles Ives: An American Journey*. Since 1995, he has been the music director of the San Francisco Symphony.

ANSWER: Michael Tilson Thomas

14. You are a hydrological engineer working for the government of Uzbekistan. Answer the following about the geography that shapes your daily life for 10 points each.

[10] You spend much of your time thinking about this major river, which forms part of Uzbekistan's southern border with Turkmenistan. The Uzbek government is aggressively promoting this river's basin as a destination for petroleum drilling.

ANSWER: Amu Darya [or Oxus River]

[10] The Amu Darya river flows into this inland sea. One of Uzbekistan's major hydrological problems is the fact that this sea is rapidly disappearing due to Soviet-era irrigation policies.

ANSWER: Aral Sea

[10] In Uzbek Hydrological Engineering School, you were warned to never set foot on this island in the Aral Sea, which the Soviet Union used to test weaponized anthrax. Unfortunately, due to the shrinking of the Aral Sea, it became first a peninsula and now part of the mainland.

ANSWER: Rebirth Island [or Vozrozhdeniya Island]

15. This author's *MaddAddam* trilogy includes *The Year of the Flood* and *Oryx and Crake*. For 10 points each:

[10] Name this Canadian author, who imagined a takeover of the United States by religious zealots in her novel *The Handmaid's Tale*.

ANSWER: Margaret Atwood

[10] This historical novel by Atwood fictionalizes the life of the title character, who was convicted of murdering Thomas Kinnear and Nancy Montgomery in 1843. It's framed as a dialogue between the title character and Dr. Simon Jordan.

ANSWER: Alias Grace

[10] *Alias Grace* was inspired by a passage in this author's book *Life in the Clearings*. Atwood wrote a poetry collection about the "journals" of this author, who wrote about how much she hated settlement life in 19th century Canada in *Roughing it in the Bush*.

ANSWER: Susanna Moodie [or Susanna Strickland]

16. This organization held a 20,000 person rally at Madison Square Garden on President's Day 1939, where its leader Fitz Kuhn attacked "Franklin D. Rosenfeld" and the "Jew Deal." For 10 points each:

[10] Name this organization of Nazi sympathizers in the United States, active before WWII.

ANSWER: German-American **Bund** [or Amerikadeutcher **Bund**; or Amerikadeutscher Volks**bund**; or **AV**]

[10] This American Neo-Nazi group was founded in Idaho in the 1970's. It lost control of its Coeur D'Alene headquarters after it was bankrupted by a 2000 lawsuit filed by a family it had beaten up.

ANSWER: **Aryan Nations** [do not accept Aryan Brotherhood]

[10] The lawsuit that bankrupted the Aryan Nations was orchestrated by this civil rights group based in Montgomery, Alabama. It is famous for maintaining a list of hate groups.

ANSWER: **Southern Poverty Law Center** [or **SPLC**]

17. It may be assigned roughly by considering each residue's place in a Ramachandran plot. For 10 points each:

[10] Name this local three-dimensional form of a protein, usually described in terms of various sheets, turns, and helices.

ANSWER: protein **secondary** structure

[10] This algorithm developed in 1983 assigns a probable secondary structure based on atom position information and a calculation of hydrogen bond energies between atoms.

ANSWER: **DSSP** [or **Dictionary of Secondary Structure**]

[10] This method of secondary structure prediction bases its calculations on the likelihood a given amino acid is in a particular structure, but also uses Bayesian analysis based on whether an amino acid's neighbors formed a given structure.

ANSWER: **GOR** method [or **Garnier-Osguthorpe-Robson**]

18. In the *Skáldskaparmál*, the story of Mokkuralfi occurs right after this entity is slain. He won't leave Valhalla after his stupid horse Gullfaxi loses a race, so the Æsir have him killed. For 10 points each:

[10] Name this jötunn whose lame weapon is a millstone.

ANSWER: **Hrungnir**

[10] Hrungnir is killed by this god, who still has a piece of that millstone embedded in his head after Groa couldn't pay attention long enough to remove it.

ANSWER: **Thor**

[10] After killing Hrungnir, Thor was trapped under his corpse leg until liberated by this other god, whom Thor gifted Gullfaxi in return.

ANSWER: **Magni**

19. At the end of this play she appears in, this character halts her suitors Bob Acres and Lucius O'Trigger from fighting duels on her behalf. For 10 points each:

[10] Name this character, who rejects an arranged marriage with Jack Absolute out of love for the poor Ensign Beverly, only to discover that they're the same person.

ANSWER: **Lydia** Languish [or Lydia **Languish**]

[10] Lydia Languish is the heroine of this comedy by Richard Brinsley Sheridan, whose other characters include Mrs. Malaprop, a woman who constantly misuses words.

ANSWER: *The* **Rivals**

[10] A subplot in *The Rivals* focuses on this neurotic friend of Jack Absolute, who is tormented by jealous thoughts about his lover Julia. He tests her fidelity by saying he's killed someone and needs to flee the country, which causes her to break off their engagement.

ANSWER: **Faulkland**

20. This movie's soundtrack prominently features the song "Do Not Forsake Me Oh My Darlin'." For 10 points each:

[10] Name this Western, in which Gary Cooper plays Will Kane, a marshal who is abandoned by townspeople and has to face the Miller gang alone.

ANSWER: **High Noon**

[10] *High Noon* was written by this screenwriter, who was blacklisted during the McCarthy era. He also produced and scripted *The Guns of Navarone* and co-wrote the script for *The Bridge on the River Kwai* along with Michael Wilson.

ANSWER: Carl **Foreman**

[10] President Kennedy crossed a picket line to watch this screenwriter's movie *Spartacus*, which helped end Hollywood blacklisting. He also wrote the screenplay for the 1960 blockbuster *Exodus* and the anti-war novel *Johnny Got His Gun*.

ANSWER: Dalton **Trumbo**