

## Literature

### American

A poem beginning “How funny your name would be / if you could follow it back to where / the first person thought of saying it” goes on to describe a “long-lost girlfriend, who comes at long last to impersonate” one of these things. That poem about these suggests that these “have no source” and is called “Myrtle”. In another poem by the same author, one of these “glisten feebly through the freezing rain”. That poem, which lists several dozen examples of these things, is “Into the Dusk-Charged Air”. Another poem describes one of these “marked / Near the eighteen peaks and the city / Of humiliation and defeat”. A collection whose first word is this followed up its author’s *Tennis Court Oath* and preceded his *Self-portrait in a Convex Mirror*. For 10 points, identify these bodies of water than title a John Ashbery collection along with “mountains”.

ANSWER: **rivers** (in the poetry of John Ashbery)

The title character of this novel is completely hairless since birth, strongly dislikes electricity, and had a breast amputated after a bus accident in Seattle. For 10 points each:

[10] Name this sprawling novel in which Miss Vera Cartwheel takes a cross-country bus ride searching for her childhood nursemaid. Vera’s mother Catherine spends much of this novel confined to her bed in an opium-induced dream.

ANSWER: ***Miss MacIntosh, My Darling***

[10] *Miss MacIntosh, My Darling* is the only novel of this woman who wrote the poetry collections *Prismatic Ground* and *Moderate Fable*. She wrote a study of utopian concept called *Angel in the Forest* while living in the New Harmony community.

ANSWER: Marguerite **Young**

[10] Miss MacIntosh hails from What Cheer, a city in this U.S. state. A Graduate Writer’s Workshop at the flagship univeristy of this state featured writers like Robert Penn Warren and John Berryman as former faculty.

ANSWER: **Iowa**

### British

A story by this man opens with the narrator and his newlywed wife meeting Nebraskan Elias P. Hutchinson in a train station in Frankfurt, before Elias goes on to accidentally kill kittens of a black cat with a dropped rock. Elias goes on to compare the cat’s vengeful mother to widowed Native American women he encountered in the Indian Wars before being killed when the black cat mother causes a iron maiden-like torture device to close on him in that story by him. Besides “The Squaw”, this man also wrote children’s fairy tales like “The Invisible Giant” and “The Shadow Builder” in his collection *Under the Sunset*. This man’s most famous character appears peripherally in a story in which an unnamed narrator discovers a tomb with a steel rod stuck into it that a beautiful woman appears to be sleeping inside. That title character was likely inspired by actor Henry Irving, who this man was an assistant to for many years. For 10 points, name this author of the story collection *Snowbound* whose most famous character appears in his story “Dracula’s Guest”.

ANSWER: Bram **Stoker** (accept Abraham **Stoker**)

This man’s collection *London Nights* featured multi-part poems dedicated to various women like “Lilian” and “Bianca”. For 10 point each:

[10] Name this champion of Baudelaire and Verlaine, whose contributions to *The Yellow Book* were later expanded into his work that exposed much of the Anglophone world to modern French literature, *The Symbolist Movement in Literature*.

ANSWER: Arthur **Symons**

[10] Symons' poetry is usually associated with this movement in late nineteenth century literature. Walter Pater and Algernon Charles Swinburne are usually associated with this movement that emphasized an aesthetic of excess and artificiality.

ANSWER: **decadentism** (or the **decadent** movement)

[10] Another poet associated with decadentism was this man who described a coward killing the thing he loved with a kiss in "The Ballad of Reading Gaol".

ANSWER: Oscar **Wilde**

## European

In *How to Read and Why*, Harold Bloom calls this story "the funniest and most unnerving I've yet read" before referencing Frank O'Connor by asking "Who could be more submerged" than the title character. The narrator of this story quotes a "great man" with the line "I also have to pee, but for quite different reasons" when discussing the privileged nature of immediate needs. This story's title character shocks the narrator when she exclaims "I want to go poo-poo", which her husband brushes off as untrue because she has no such needs after sticking two fingers down her throat. The narrator does not know why the title character was named after the capital of Venezuela, but attributes it to the fancies of the mind of the author he is writing a biography of. The title character is destroyed when an air pump is inserted in her anus and she is blown up and thrown in a fire, after the narrator reveals that she is a balloon and not a real woman. For 10 points, name this comedic story by Tommaso Landolfi named after the spouse of the Russian author of "The Nose" and "The Overcoat".

ANSWER: "**Gogol's Wife**"

The protagonist of this novel is an expert on J.K. Huysman and calls Rimbaud a phoney dissertation topic. For 10 points each:

[10] Name this novel set in 2022 where the Union for a Popular Movement allies with the Muslim Brotherhood to enact Islamic law in France.

ANSWER: **Submission** [accept **Soumission**]

[10] *Submission* is a 2015 novel by this often controversial French writer also known for *Atomized* and *The Map and the Territory*.

ANSWER: Michel **Houellebecq**

[10] Houellebecq's novel *The Possibility of an Island* is partially narrated by one of these figures in a distant future. Its protagonist Daniel is a successful comedian who joins a cult resembling the Raelists that pursues creating these entities, allowing members immortality.

ANSWER: human **clones** [accept descriptions]

## World

A story in this language features a deceitful heron who promises to fly a crab to a lake with no bottom, when in reality he is taking him to a sacrificial rock to be eaten. That heron meets his doom when the crab decapitates him with his claws. Another story from this language sees a crow-hen steal a king's golden chain and plant it into the den of his rival the black snake, with that story's explicit moral stating "In case where brute force would fail / A shrewd device may still prevail." The frame story for a set of fables in this language features a scholar promising a king to

make his three blockhead sons intelligent by simply telling them animal stories and is called *Five Treatises*. In a poem in this language, a subject of the God of Wealth Kubera relays information to his far away wife by describing beautiful sites to a passing cloud. For 10 points, name this literary South Asian language used by the likes of Vishnu Sarma and Kalidasa.

ANSWER: **Sanskrit**

In this novel, a denizen of the polynesian island of Wayo Wayo is sacrificed to the Sea God, only to end up floating on the Great Pacific Trash Vortex, which eventually crashes into an Asian island. For 10 points each:

[10] Name this metafictional novel in which Alice searches for her husband and son Thom and Toto amidst ecological disaster, written by Wu Ming-Yi

ANSWER: *The **Man With The Compound Eyes***

[10] Wu Ming-Yi is from this country whose other notable writers include Zhang Duchan and Kenneth Pai Hsien-yung. Lung Ying-tai from this state wrote *The Wild Fire*, critical of its Kuomintang government.

ANSWER: **Taiwan** (or the **Republic of China**)

[10] This American author of Taiwanese descent wrote about a semi-autobiographical character visiting the title city in *Taipei*. He also wrote about a disgruntled Domino's Pizza employee from Orlando in *Eeeee Eee Eeee*.

ANSWER: Tao **Lin**

Other

A play by this author that begins with epigram from Jean-Luc Godard and Virginia Woolf features the showman Baron Docteur showing off the enormous posterior of the titular Venus Hottentot. This author embarked on a 365 Days/365 Plays project which begins with a short play featuring a conversation between Krishna and Arjuna. This author often includes the unique stage direction of "A Spell" to indicate a elongated and heightened rest in which the players assume "a kind of architectural look". A play of hers features the Union soldier Smith and the slave Hero escape from captivity before hero returns home Penny in a U.S. civil war telling of *The Odyssey* called *Father Comes Home From the Wars*. This woman's most well-known play features a character who engages in a 3-card hustle kill his brother who has a job impersonating a former president. For 10 points, name this contemporary African-American playwright, who wrote about the brothers Booth and Lincoln in *Topdog/Underdog*.

ANSWER: Suzan-Lori **Parks**

In the essay "Derivative Sport in Tornado Alley", Gil Antitoni and the essay's author are lifted off the ground and thrown against a fence while performing this activity, for 10 point each:

[10] Name this sport that requires "geometrical thinking" according to that essay. The same author wrote about the "Professional Artistry" of Michael Joyce, a professional player of this sport.

ANSWER: **Tennis**

This author of the aforementioned essays on tennis had his essays on the subject collected in the posthumous book *String Theory*. Another essay in that collection describes "Federer Moments" of awe while watching the Swiss player play.

ANSWER: David Foster **Wallace**

Another tennis-centric essay of Wallace describes how this woman "Broke My Heart". In that essay, Wallace describes being disappointed at the banalities of athletic truisms like those found in this woman's *Beyond Center Court: My Story*.

ANSWER: Tracy **Austin**

## Science

### Biology

The first description of this reaction appeared in a 1951 unpublished paper by one of its namesakes that was “contemptuously rejected by a journal editor.” By using a relaxation model for this reaction, one can approximate the limit cycle period as a function of  $f$  and  $q$ , which gives that period to be between 183 and 228 seconds. After translating a central equation to a dimensionless form, one model of this reaction predicts that the steady state is always linearly unstable because the product of the three roots of the characteristic equation of the stability matrix is greater than zero. That model used to study this reaction reduces a more complex model to only consider 5 key reactions that can be modeled by a 3-chemical system. The Field-Noyes model of this reaction is also known as the ‘Oregonator’ since Field worked at the University of Oregon. For ten points, name this double eponymous reaction where, in the oxidation of malonic acid by bromate, the ratio of the concentrations of the cerium catalyst oscillate.  
ANSWER: **Belousov-Zhabotinskii** reaction [accept **BZ** reaction; prompt on partial answer]

The exciting discovery of this sachtid in the Fezouata formation in Morocco may help answer questions about the morphology of a certain phylum. For ten points each:

[10] This Ordovician species was found to be a stem-group aculiferan by phylogenetic analysis. The discovery of this species suggests that a single anterior shell plate and unmineralized, spiny sclerites are ancestral traits of the aculiferan crown.

ANSWER: **Calvapilosa kroegeri**

[10] *C. kroegeri*’s discovery helps place this early Cambrian taxon originally found in Greenland that has two shells on either end of its body. This taxon is similar to brachiopods, and its most famous species is called *evangelista*.

ANSWER: **Halkieria** [accept **Halkieriids**]

[10] Halkieria is closely related to this phylum, and the radula evident on *C. kroegeri* helped place the species in this phylum. This phylum contains bivalves and cephalopods.

ANSWER: **Mollusca** (accept **molluscs**)

### Chemistry

In the derivation of this theory, its creator defined a form-function that is 1 when both inputs are reactants and 0 when both are products to relate the stationary probability density to the equilibrium probability density. One extension of this theory gives the rate of escape of a particle as the correlation function of the forward flux through the reactants’ surface with the forward flux passing through the products’ surface. Based on experiment, Kubo modified this theory’s central equation to account for time-dependent friction, often called ‘memory friction’, to this theory. Grote and Hynes extended this theory, whose originator used a Fokker-Planck equation derived from a Langevin equation to find the escape rate in both the weak and strong damping limits. For ten points, name this reaction rate theory used to describe the rate of noise-assisted escape of a particle from a metastable well with a parabolic barrier, named for a man who co-names a relation with Kronig.

ANSWER: **Kramer**’s Reaction Rate Theory

An alternative to this reaction named for Hantzsch uses C-alkylation and N-alkylation of a stabilized enamine intermediate to form its product. For ten points each:

[10] Name this reaction in a cyclic intermediate is formed by the nucleophilic attack of an enamine’s beta-carbon on the electrophilic carbon of the carbonyl group of either the alpha-amino ketone or alpha-amino-beta-keto-ester. That intermediate of this reaction becomes the desired product via the loss of a water molecule and isomerization.

ANSWER: **Knorr** synthesis [accept but do not read **Knorr** pyrrole synthesis]

[10] Knorr synthesis can be used to create this pi-excessive aromatic heterocycle with formula  $C_4H_4NH$ . This molecule is important in the structure of porphyrins; it was first isolated from bone oil in 1857.

ANSWER: **pyrrole**

[10] This test for pyrrole reacts a compound with 4-dimethylaminobenzaldehyde in the presence of hydrochloric acid. The result of this test turns purple if the compound is a pyrrole due to cation formation.

ANSWER: **Ehrlich** test

## Physics

If  $f(x)$  is a  $C^1$  function in  $\mathbb{R}^{2n}$  and the gradient of  $f$  at  $x$  is non-zero, then a complete one of these functions exists in a neighbourhood of  $x$  by the symplectic rectification theorem. The Lie condition defines this property by the exactness of the difference between two Poincaré-Cartan forms. A differentiable and invertible transformation  $X$  on  $x$  and  $t$  has this property if the Jacobian matrix of  $X$  is symplectic for every choice of  $x$  and  $t$  in the domain. A transformation possessing this property is equivalent to the statement that the Poisson bracket of the original variables is the same as the Poisson bracket computed with the transformed variables. In the simple harmonic oscillator, transformations with this property are used to take lowercase  $q$  to the sine of big  $Q$  times the square root of  $2$  big  $P$  over  $m$  omega and to take lowercase  $p$  to cosine of big  $Q$  times the square root of  $2$  big  $P$  times  $m$  times omega. For ten points, name this type of coordinate transformation that preserves the form of Hamilton's equations.

ANSWER: **canonical** transformations

Laura Green's team at the National High Magnetic Field Laboratory discovered the Dirac fermion surface states and weakly topological surface states in one of these materials. For ten points each:

M[10] These materials with heavily correlated electrons transition to a small-gap state at low temperatures, with the chemical potential falling in the gap.

ANSWER: **Kondo insulators** [accept **Kondo semiconductor**; accept **heavy fermionic semiconductor**]

H[10] This model, sometimes co-named with Hubbard, is used to understand the behavior of Kondo insulators and other heavily correlated materials. This model's Hamiltonian consists of terms for tunneling, bare  $f$  atomic-level position,  $f$ -electron coupling, and hybridization.

ANSWER: **periodic Anderson**-Hubbard model [prompt on **Anderson** model; accept **Anderson impurity** model]

[E] Anderson also developed the pseudo-spin approach to this theory of superconductivity. This theory describes an electron-phonon interaction leading to the formation of Cooper pairs that condense into the same ground state.

ANSWER: **BCS** theory [accept **Bardeen-Cooper-Schrieffer** theory]

## Computer science

In the paper in which this law was formulated, this law's creator defined both a difficulty index and a performance index, both of which were based on information theory. For 10 points each:

[10] Name this law from Human-Computer Interaction that states that the time taken to move to a target is a function of the quotient of the distance of the pointer from the target divided by the width of the target.

ANSWER: **Fitts's law** (or **Fitts law**)

[10] Fitt's law is applied to both mouse input and this other type of input, which involves the use of one's finger. This word describes a type of screen employed by many smartphones.

ANSWER: **touch** (accept **haptic**)

[10] Studies in Human-Computer Interaction often employ this technique, in which a researcher hidden from the view of the participant is secretly manipulating the experiment based on the participant's responses. It takes its name from a 1939 movie.

ANSWER: **Wizard of Oz** technique (or **WoZ**; or **OZ**)

astronomy

One theory this process was challenged by Harold Jeffreys by noting that because two object involved in this process have similar densities and came from the same origin, then they should have similar calculations, which is not the case. Lynden-Bell and Pringle proposed a mechanism for this process that involved the loss of energy in a system through radiative heat transfer while angular momentum is transferred outward. Theories for this process can be divided into monistic and dualistic categories, the latter of which includes Jeans Tidal Theory of this process. The earliest theory of this process was criticized by Clerk Maxwell and is usually called Laplace Nebula theory, which failed to explain a seven degree tilt present in this process's end result. The two modern competing theories for this are abbreviated CT and SNT, the later of which includes a four step process of planetesimals acquiring gas envelops. For 10 points, identify this process for which several theories exist to explain this process's end result of a set of nearly coplanar planetary orbits around a central body.

ANSWER: **formation** of the **Solar System** (accept logical equivalents like **origin** of the **Solar System**)

other science

The proof of one theory important in this branch of mathematics uses the fact that an elementary embedding must exist between the elementary diagram of a structure and the structure itself, and the Tarski-Vaught test is used to prove a similarly named theorem. The latter theorem is one of the properties guaranteed by Lindström's theorem. The upward and downward Lowenheim-Skolem theorems belong to this branch of mathematics whose compactness theorem states that an L-theory is satisfiable if and only if every finite subset of the L-theory is satisfiable. In this branch of mathematics, it can be shown that every consistent first-order theory is satisfied by its namesake objects; that is Gödel's completeness theorem. For ten points, give this branch of mathematics that studies structures in the context of mathematical logic using formal languages.

ANSWER: **model** theory [prompt on **logic** until read]

To address issues in performing this task, Jeffrey Mogil and Malcolm Macleod have proposed a new type of study called a preclinical trial. For ten points each:

[10] Brian Nosek's team at the Open Science Center attempted to perform this task for 100 studies from three different psychology journals, but only 39% of those attempts were subjectively rated to have achieved this task.

ANSWER: **reproduce** an experiment [accept **replicate**; accept word forms]

[10] Controversy has flared over this gene editing technique due to issues of reproducibility. This gene editing technique uses a ssDNA Argonaute endonuclease, but, unlike CRISPR/Cas9, does not require a PAM.

ANSWER: **NgAgo** [accept **Natronobacterium gregoryi Argonaute**]

[10] Qi. J et al attempted to use NgAgo to study eye development in these model organisms. The transparency of these model organisms' embryos makes it easy to study their internal development.

ANSWER: **zebrafish** [accept **Danio rerio**]

History

American

In 1882, this man appeared in court to defend himself from allegations that he had interest in Peruvian the guano industry. His memoir, subtitled "From Lincoln to Garfield," is titled *Twenty Years of Congress*. This man was the target of shouts of "Burn, burn, burn this letter!" referring to letters produced by James Mulligan that scandalized

this man. Other than Daniel Webster, this man is the only person to have served as secretary of state under three different presidents. In one electoral campaign, this man's supporters critiqued his opponent with cries of "Ma, Ma, Where's My Pa?" That opponent of his in the 1884 election was Grover Cleveland, who would win the race. For 10 points, name this champion of the "Half-breeds" referred to as the "Continental liar from the state of Maine."

ANSWER: James G(illespie) **Blaine**

After this man died of sunstroke, his wife, Catharine, established the Dungeness plantation on land he had obtained on Cumberland Island. For ten points each:

M[10] This man is supposed to have said "no one ever heard of a quartermaster in history" after taking on the role as Quartermaster-General of the Continental Army at Valley Forge in 1778, but, clearly, he was wrong.

ANSWER: Nathanael **Greene**

H[10] This soldier served as a transportation officer during Greene's "race to the Dan". After the second partition of Poland, this military leader received the title of *Naczelnik*, but was soon defeated at Maciejowice by the Russians.

ANSWER: Tadeusz **Kościuszko**

E[10] This general of the Continental Army and future President of the United States appointed Nathanael Greene to the southern theater of the American Revolution after Horatio Gates' disastrous campaign.

ANSWER: George **Washington**

European

Columbia historian Adam Tooze challenged the legacy of this man in his 2006 book *The Wages of Destruction*, claiming that this man's ideological commitment to his movement was greater than this man claimed. This man supposedly exclaimed that "The *Fuhrer* can kiss my ass" after receiving a message from Erhard Milch, and this man's letter to Hitler concerning the importance of the coal mining region of Silesia went unread. This man assumed one position after the death of Fritz Todt in a plane crash, and was shocked by the poor conditions in the V-2 Mittelwerk factory upon his visit here. This man designed a huge eagle statue to gaze down upon a Soviet bronze statue at the 1937 World Fair and surrounded one site with 130 anti-aircraft searchlights. This author of the memoirs *Spandau: The Secret Diaries* and *Inside the Third Reich* coined the term "ruin value", meaning buildings should be designed to make pretty ruins thousands of years in the future. For 10 points, name this chief Nazi architect who constructed the Reich Chancellery and the *Zeppelinfeld* stadium, sometime known as "the Nazi who said sorry" for accepting moral responsibility at the Nuremberg Trials.

ANSWER: Berthold Konrad Hermann Albert **Speer**

Frontinus believed that Aqua Alsentina, which was built as one of these actions, held the dirtiest water, and as such it was used to supply the industrial district. These actions included dividing Rome into 14 districts and the creation of a bureaucracy that included such positions as procurator-governor and procurator-financial officers. After requiring that senate members be worth 1 million sesterces, this series of actions created a consilium of about 30 members to guide the actual senate. Financial and political rewards, including serving in political positions earlier than specified by the *cursus honorum*, were given to men with many children by this series of laws. These legislations most famously included the *Lex Julia de Maritandis Ordinibus*, which detailed penalties for unmarried men aged 38 and older and adultery, which ironically led to the exile of Julia the Elder. For ten points, these are what series of actions to improve the Republic accomplished by the man who returned the legionary standards from Parthia to Rome?

ANSWER: **reforms** of **Augustus** [prompt on *Leges Juliae* or *Lex Julia* before mentioned; accept synonyms for reform; accept anything mentioning social or legal changes made by Augustus]

As a member of the Directory, this man supported concessions to end the war, along with Letourneur and Barthélemy. For ten points each:

M[10] This French politician's tenure as Napoleon's Minister of War saw the Battle of Marengo. Earlier in his career, his man and Jourdan commanded the French army to victory over the Allies at Wattignies.

ANSWER: Lazare Nicolas Marguerite **Carnot** (prompt on "the Organizer of Victory")

E[10] Carnot was known for utilizing this strategy in his campaigns, which involves an army attacking both flanks of an enemy's formation. Hannibal famously employed this strategy against the Romans at Cannae.

ANSWER: **pincer** movement or **double envelopment** (prompt on "envelopment"; accept descriptions)

H[10] In 1795, Carnot attempted to use a double pincer movement to take this city located on the Rhine, but failed because Pichegru refused to link up with Jourdan. In 1796, Carnot again instructed Jourdan to besiege this city, but he was thwarted by Archduke Charles at Wetzlar.

ANSWER: **Mainz**

This document was originally published in the newspaper *Sovetskaya Rossiya* by a chemistry lecturer at the Leningrad technological institute and was not responded to by the Party for three weeks. For 10 points each:

[10] Name this essay written in favor of classical Soviet principles that attacked the reforms of Mikhail Gorbachev. This Nina Andreyeva essay cites pro-Stalin quotes from Winston Churchill and Charles de Gaulle.

ANSWER: ***I Cannot Forsake My Principles*** (accept but NO DOT REVEAL The **Manifesto of Anti-Perestroika Forces**)

[10] *I Cannot Forsake My Principles* was critical of this political reformation of the Soviet Union spearheaded by Gorbachev's policy of glasnost. Neo-Stalinists blame this movement for the 1989 fall of the Soviet Union.

ANSWER: **Perestroika**

[10] *I Cannot Forsake My Principles* largely blamed these people for causing the dissolution of Soviet Communism. Andreyeva used the term refuseniks, referring to these people, to mean "refusing socialism" instead of its original meaning referring to those refused emigration documents.

ANSWER: **Jews** ( or **Jewish** people)

World

One emperor from this clan could not decide which woman to have sex with, so he had goats pull him through the palace, having sex with a woman wherever the goats stopped. One general of this family successfully repulsed Zhuge Liang's invasion by waiting for him to die, and that general of this family forced Wang Ling and Cao Biao to commit suicide in order to secure the regency for his son, Shi, who went on to rule the Cao Wei state. One member of this clan was castrated for supporting Li Ling after Li Ling suffered defeat at the hands of the Xiongnu. That member of this family wrote an oft cited work that details history from the mythical Yu the Great to the time of Emperor Wu of Han. For ten points, name this family name shared by rulers of the first Jin dynasty, the most famous member of which is the author of the *Shiji*, Qian [CHI-EN].

ANSWER: **Sima**

This man was ousted as president of his nation by a military junta that replaced him with Perez Jimenez after only ninth months of rule. For 10 points each:

[10] Name this first cleanly elected president of Venezuela who replaced Romulo Betancourt. This man's idealist policies were outlined in some of his fiction, such as *Doña Barbada*.

ANSWER: Romulo **Gallegos**

[10] This earlier military ruler of Venezuela lead the country from 1908 to 1935. The Generation of 1928 was a student group who opposed this leader's authoritarian rule.

ANSWER: Juan Vicente **Gomez**

[10] Gomez managed to massively cut Venezuela's national debt but granting foreign companies access to this resource in Lake Maracaibo. Today PDVSA is the state entity that controls this resource in Venezuela.

ANSWER: **oil** [accept crude **oil**; accept **petroleum**]



Other

Rare footage of this organization show's three female members of it in all white dance in a room full of balloons to a song whose lyrics repeatedly chant the word "leader". This organization is represented by a blue and white flag featuring an eight-pointed, mandala-like design. In 2007 this group split into sects called The Circle of Light and Aleph. This group's leader drew from Revelation 16:16 in predicting a nuclear war that would begin in 1997. This group's members murdered the family of an anti-cult lawyer Tsutsumi Sakamoto after he threatened to bring a lawsuit against this group. Haruki Murakami's book *Underground* documents the history of this group, whose leader combined Christianity, Buddhism, and Hinduism to form a beliefs system that used manga and anime propaganda to recruit new members, many of whom were respected scientists and doctors. Shoko Asahara founded, for 10 points, what doomsday cult considered a terrorist organization after its 1995 Sarin gas attacks on the Tokyo Subway.

ANSWER: **Aum Shinrikyo**

This book argues that thinkers on race can be classified as assimilationists, segregationists, or anti-racists. For 10 points each:

[10] Name this 2016 winner of the National Book Award for nonfiction written by Ibram X. Kendi, a history of racists ideas in America. Its sections are named for thinkers like Cotton Mather and William Lloyd Garrison.

ANSWER: ***Stamped From The Beginning: The Definitive History of Racists Ideas in America.***

[10] The final section of *Stamped From The Beginning* is named for this woman who successfully defended herself on charges involving the 1970 takeover of the Marin County, California courthouse. This activist and former UC Santa Cruz professor twice ran for vice president for the Communist Party.

ANSWER: Angela **Davis**

[10] Kendi discusses competing early European theories for "blackness" as either a result of Africa's harsher climate, or this "theory" which states that blacks look the way they do to the actions of one of the biblical Noah's sons.

ANSWER: **curse** theory [accept either underlined **Curse** of **Ham**; accept descriptive answer indicating the African blackness is a result of **Ham** being **cursed** by God]

Arts

Visual Arts

Artist and type of work required. X-ray analysis of one of the earliest works of this type by this artist revealed a study of a nude figure below it. Jan Hulsker and Jacob Baart de la Faille disagree in their assessment of where many of these works by this artists were painted. One of the last works of this type by this artist, which depicts a man holding a palette and a brush in front of a swirling blue background, was painted during the artist's stay at Saint Rémy. Another of these works by this artist depicts a man in a brown coat in front of a green background, and is dedicated to the artist of *Spirit of the Dead Watching*, his former roommate. That painting contains a tiny inscription reading "a mon ami Paul," referring to Gauguin. Several of these paintings by this artist depict the subject, a red-haired man, wearing a yellow straw hat. For 10 points, name these self-portraits, some of which depict the artist with a bandaged ear.

ANSWER: **self-portraits** of Vincent **van Gogh** (accept equivalents; prompt on partial answer)

An outdoor scene in this film sees a character build a pyre before the camera pans upward to show the top of several tall pine trees is followed by another character explaining "strawberry cough" and the relationship between faith and chance. Earlier, that old character tells a joke about a British scientist eating stork while Radiohead's "Life in a

Glass House” plays. This film opens with a long take in a cafe where the death of Baby Diego is announced before a bomb goes off resulting in a brief shot of a woman carrying a severed arm before the title card shows. The protagonist views Michelangelo's David and Picasso's Guernica in the Art Ark when visiting his cousin before transporting the pregnant Nee to the Human Project. For 10 points, name this 2006 Alfonso Cuaron film set in a future Britain where all of mankind has become infertile.

ANSWER: **Children of Men**

The title of this painting is written across the top of it in gold lettering in French. For 10 points each:

[10] Name this painting depicting two gears - a small one labeled 1 and a large one labeled 2, which correspond to the words “femme” and “homme” respectively.

ANSWER: **Machine Turn Quickly** (or **Machinez Tournez Vite**)

[10] *Machine Turn Quickly* was painted by this Frenchman, who also created the magazine *391*, the name of which was inspired by Steiglitz's *291* despite having no relation to it.

ANSWER: Francis **Picabia** (or Francis-Marie Martinez de **Picabia**)

[10] *391* was most closely associated with this art movement. Contributors to *391* who practiced this style included Man Ray as well as Marcel Duchamp.

ANSWER: **Dadaism**

music

The dedications of this composer's Opus 5 and 6 have led some scholars to believe he visited Germany in his late twenties. This composer's pieces for violin were reportedly criticized for not using the instrument's full capability, and an anecdote relates how he refused to play a passage from a Handel oratorio because it included a high A. In one of this man's works, scored for concertino and ripieno, is often cited as exemplifying his *cantabile* style. That work is his Op. 6 No. 4, and is the fourth piece in a collection of twelve pieces of a similar style. His best known work, which is structured as a *concerto da chiesa*, ends with a 12/8 largo pastore *ad libitum* and bears the inscription *Fatto per la notte de Natale*. For 10 points, name this Italian Baroque violinist and composer of twelve concerto grossi, including the *Christmas Concerto*.

ANSWER: Arcangelo **Corelli**

These signs could indicate the number of notes, whether the note descended or ascended from the previous one or if it was a repeated tone but did not indicate exact pitches. For 10 points each:

[10] Name these signs thought to be the earliest form of notation in medieval music. “Heightened” ones of these could be placed at different heights above the text, but still required performers to learn the melody by ear.

ANSWER: **neumes** [accept heightened **neumes**]

[10] Early medieval musical scribes first came up with the idea of placing a horizontal line over which heightened neumes were placed as the first sort of staff. Those lines were usually marked as C or F, which evolved into these symbols.

ANSWER: **clefs** [accept any type of **clef** like bass or treble]

[10] This eleventh-century monk suggested the arrangement of several lines and spaces which eventually evolved into our four line staff with each line being a third apart. His text *Micrologus* was nearly as popular as Boethius's *The Fundamentals of Music*.

ANSWER: **Guido** of Arezzo

auditory other arts

This record featured Gary Peacock on bass and Sunny Murray on percussion and is bookended by two versions of the same song called “Ghosts” For 10 points each:

[10] Name this 1964 album also containing the tracks “The Wizard” and “Spirits”. It followed its artist’s *Swing Low Sweet Spiritual*.

ANSWER: ***Spiritual Unity***

[10] *Spiritual Unity* was recorded by the trio lead by this saxophonist pioneer of free jazz who drowned after jumping off the Statue of Liberty Ferry. This man experimented with microtonality and often included childrens lullabies and march tunes into his soloing.

ANSWER: Albert **Ayler**

[10] Ayler recorded a 1967 live album at the “Vanguard” club in this New York City neighborhood. Bill Evans and Thelonious Monk often played in this neighborhood also associated with folk music and beat poetry.

ANSWER: **Greenwich** Village [accept The **Village**; accept **Village** Vanguard]

RMP

The sixth section of chapter six of this work quotes Bonaventure's statement that “contemplation deepens the more we feel the working of God’s grace within our hearts” after claiming that God is present in a leaf, a mountain trail, and a dewdrop. The final section of this work, titled Beyond the Sun, discusses the idea that all will one day be face to face with the infinite beauty of God before closing with a “Christian prayer in union with creation”. This work states the Doomsday predictions should no longer be meet with irony or disdain, and this text references the Stockholm Declaration and the Basel Convention as examples dialogues on the main subject in the international community. This work calls for universal access to clean drinking water and acknowledges the human use of fossil fuels as the reason for climate change. For 10 points, name this text that calls for worldwide environmental protection and help for the poor, a 2015 encyclical by Pope Francis.

ANSWER: **Laudato si** of the Holy Father (accept “**Praise be to you**”; accept Pope **Francis**’s 2015 **encyclical** before mentioned)

This practice involves consuming only water and “pulses” for either 10 or 21 days. For 10 points each:

[10] Name this Christian fast based on a biblical story where its title man refuses the “kingly foods” of Nebuchadnezzar. This fast promoted by Ellen G. White proscribes a vegan diet.

ANSWER: The **Daniel** Fast

[10] The basis for the restricted foods during the Daniel Fast draw heavily from this set of Jewish dietary laws. These laws declare pork, shellfish, and most insects as non-kosher.

ANSWER: **Kashrut** [or **Kashruth** or **Kathrus**]

[10] This is the term for the rabbinical certification for a food product that declares it kosher. This status as decided by the Orthodox Union is marked with a capital U inside a circle.

ANSWER: **hechsher**

Mythology

In Burmese mythology, *nats* are spirits that typically inhabit these places, particular the sacred Poppa one. For 10 points each:

[10] Name these locations such as Kunlun in Chinese tradition. The Japanese *loci* festival of the dead takes place in one of these places.

ANSWER: **mountains**

[10] This mountain is called a mass of golden light in the Mahabharata. Brahma’s Golden City is said to be on the peak of this mountain that acts as an *axis mundi* of both Hinduism and Buddhism.

ANSWER: Mount **Meru** [or Mount **Mandara**]

[10] This set of kami of mountains descend the mountains every years and transform into Ta-no-kami of the fields, who bring crops. Members of the class of deities include Oyamatsumi and Konohanasakuya-hime

ANSWER: yama-no-kami

### Philosophy

A footnote in one of this thinker's works provides examples to show the difference between the meaning of the phrases "by mistake" and "by accident." In that paper, this thinker described a game in which the player looks up a word in the dictionary, then looks up every word in the definition of that word, until a cycle is reached. That work was his essay "A Plea for Excuses." In another work by this thinker, statements like "I bet you sixpence it will rain tomorrow" and "I name this ship the *Queen Elizabeth*" are used as examples of the central concept. In that work, this thinker elucidated the difference between the use of language to *assert* things and its use to *do* things. He used the term "performative utterance" to refer to the latter. For 10 points, name this author of *How to Do Things with Words*.

ANSWER: J(ohn) L(angshaw) Austin

This place is described by a sea captain to a Grand-Master of the Knights Hospitallers to be located on the Island of Taprobane, either modern day Sri Lanka or Sumatra. For 10 points each:

[10] Identify this utopian city walled by seven concentric circles representing the planets and ruled by an all power powerful priest named Hoh. The three princes of this city, Pon, Sin, and Mor, control power, wisdom and love respectively.

ANSWER: The City of the Sun [*La città del Sole*]

[10] The City of the Sun appeared in a narrative appendix to *Philosophia Realis*, a work by this Italian Dominican Friar and Philosopher. This man penned a polemic against the irreligious in *Atheism Conquered*.

ANSWER: Tommaso Campanella

[10] Campanella may have borrowed ideas like free universal education, six-hour work days, and extended human lifetimes from this British thinker's *Utopia*.

ANSWER: Sir Thomas More

### Social Science

This psychologist's theory of relational analysis asserts that any given mental content is interpreted through and obtains meaning by its relationship with other mental content. That "context principle" is one of this man's principles of mental causality. This psychologist posited that feelings could be classified as pleasant versus unpleasant, tense versus relaxed, and excited versus depressed in his "tridimensional" theory of feelings. He preferred to describe mental processes as activities rather than substances, which he referred to as "apperceptions." Edward Titchener famously studied under this psychologist. For 10 points, name this "father of modern psychology," a German who headed the Institute for Experimental Psychology at the University of Leipzig.

ANSWER: Wilhelm Maximilian Wundt

The first annotated edition of this work, produced by Richard F. Teichgraber III, was published in 2015. The first section of this work refers to the title concept as "esoteric knowledge" that will invariably be sought in some form in every civilization. This work suggests that those in charge of the central institutions should do away with what the author believed were spurious pursuits, including athletics and community service. Though this work's original subtitle was "A Study in Total Depravity," the author later changed it to be less controversial. This work criticizes the university system of the title country for its structural resemblances to a business. For 10 points, name this "Memorandum on the Conduct of Universities by Business Men" by Thorstein Veblen.

ANSWER: *The Higher Learning in America*: A Memorandum on the Conduct of Universities by Business Men

One of the namesakes of this hypothesis was inspired by the other namesakes' 1949 paper titled "Post-war Price Relations between Under-developed and Industrialized countries." For 10 points each.

[10] Name this doubly eponymous economic hypothesis which states that in the long term, the price of commodities declines relative to the price of manufactured goods.

ANSWER: **Prebisch-Singer** hypothesis (or **Singer-Prebisch** hypothesis)

[10] The Prebisch-Singer hypothesis is commonly explained by the fact that manufactured goods have a higher value for this quantity than commodities. This quantity is defined as the price demanded for a good relative to the change in income of the people demanding the good.

ANSWER: income **elasticity** of demand

[10] The Prebisch-Singer hypothesis is largely the basis for dependency theory, a model which was used by this Guyanese historian in *How Europe Underdeveloped Africa*.

ANSWER: Walter **Rodney**

#### Geography/Current Events

In this state, Craig Pass leads to the mud geyser basin of West Thumb, which an old sign there likens to "a bowl of porridge". This state's flagship university features the six-story, teepee-shaped Centennial Complex which features a large collection of art by Alfred Jacob Miller, who often painted landscapes and events in this state. A series of ancient quarries in the Northeast of this state is called the Spanish Diggers. Caspar was the nexus of an oil boom in this state along the North Platte River. This state's town of Centennial is the eastern gateway to the Medicine Bow National Forest, which contains this state's Snowy Mountains. A petrified upsurge of lava in this state is called Devil's Tower. Jackson Hole encompasses the Gros Ventre and the Teton ranges in the Northwest of this state. For 10 points, name this State whose major cities include Laramie and Cheyenne.

ANSWER: **Wyoming**

Two suspected perpetrators of this action, Doan Thi Huong and Siti Aisyah claimed that four men approached them and convinced them to perform this action as part of a prank show. For 10 points each:

[10] Name this February 2017 action that occurred while its target was in the KLIA2 terminal of the Kuala Lumpur airport. A VX nerve agent was found in its target's face after a contested autopsy.

ANSWER: **assassination of Kim Jong-nam** (or **death** or **killing** of **Kim Jong-nam**)

[10] It is believed that Kim Jong-nam was removed as heir apparent as leader of North Korea after an incident in 2001 when he attempted to visit this specific location with two women and his son.

ANSWER: **Tokyo Disneyland** (prompt on Japan or Tokyo or Disneyland)

[10] In July of 2006, Kim Jong-nam survived an assassination attempt in the Ferihegy airport in this European city while traveling with his brother Kim Jong-chul.

ANSWER: **Budapest**, Hungary

#### Other Academic

Lady Charles Finch is credited with using these things to teach geography to the children of King George III and Queen Charlotte, which she called "dissected maps". The cartographer John Spilsbury is credited with creating the first one of these objects in 1760. Tower Press was once the largest manufacturer of these in the world before being acquired by Waddingtons. In *Life: A User's Manual*, Bartlebooth transforms his paintings into these and one of these objects is central to James Merrill's *Lost in Translation*. Roll-up mats and portfolio cases can be used to preserve these things after their construction has been completed. Components of these things were adopted in 1963 as a symbol for autism. "Whimsey pieces" are components of these that can be shaped like commonplace objects instead of the typical "lock-and-key" arrangement of pieces. For 10 points, name these 2-D works in which many several tessellating pieces are assembled to reveal an image, named for the cutting tool used to make them.

ANSWER: **Jigsaw** puzzles [prompt on puzzles; prompt on puzzle pieces]

Heinrich Kramer wrote that all the actions of these people “comes from carnal lust, which is, in women, insatiable”.  
For ten points each:

E[10] Trials convicting these people were widespread throughout Early Modern Europe, exemplified by incidents in North Berwick. Sarah Osborne was accused of being one of these people by Betty Parris and Abigail Williams.

ANSWER: **witches**

H[10] Members of this group of “good witches” claimed that their leader was a bearded man who bore a white insignia and a black crossbar flag. This group, who armed themselves with fennel to fight against the strega in Northern Italy, was interpreted by Carlo Ginzburg to be a fertility cult in his book *The Night Battles*.

ANSWER: **benandanti**

M[10] According to legend, benandanti were born with this piece of membrane on their head. These objects purportedly offer protection from drowning, which made them highly valuable to sailors.

ANSWER: **caul**