

Cane Ridge Revival

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Packet 8

TOSSUPS

1. **This leader's step-daughter married the folksinger Clem Tholet, whose songs supported this leader's government. This politician led a party that merged with the Dominion Party and whose primary goals included maintaining a 1930 Land Apportionment Act that was replaced by a "willing buyer, willing seller" policy. Due to a dispute over fifteen seats in parliament, this man broke with Godfrey Huggins' UFP. Operation (*) Eland was carried out by the Selous Scouts during this man's leadership. This man held talks with Harold Wilson aboard the HMS Fearless, and later he negotiated an Internal Settlement with ZAPU and ZANU, whose military fought his government during the Second Chimurenga, or "bush war." In 1965, this man signed a unilateral declaration of independence from Great Britain. For 10 points, name this only Prime Minister of the racist unrecognized state of Rhodesia.**

ANSWER: Ian Douglas Smith

2. **In 2010, Nowak et al proposed that the second phase in this phenomenon's evolution entails the accumulation of pre-adaptations like progressive provisioning and the occupation of defensible habitats. "Life insurance" and "fortress defense" are alternate manifestations of this phenomenon, which becomes obligate after passing the "point of no return." This phenomenon is regulated by the heteromorphic SB chromosome in *Solenopsis invicta*, which are stimulated by an odorant binding protein to kill *Gp-9* homozygotes that disrupt this phenomenon in a classic example of a (*) green beard. Damaraland and naked mole rats are the only mammals to exhibit this phenomenon, which requires some members of a population to serve as non-reproductive workers and was once thought to result from relatedness asymmetry caused by haplodiploidy. For 10 points, name this extreme form of altruistic social organization most commonly observed in hymenopterans.**

ANSWER: eusociality [accept superorganisms or word forms; accept life insurance or fortress defense before mentioned; prompt on any answers related to being "social;" prompt on "altruism" or "kin selection" or "inclusive fitness" or "cooperation" or related answers about helping others; prompt on "haplodiploidy" before mentioned; prompt on "colony formation" or "caste systems" or "hierarchy" or "heterarchy" or related answers; prompt on answers about queens or workers or other caste roles before mentioned]

3. **Anthony Kenny argued against viewing one part of this argument as skepticism about memory in his criticism of Norman Malcolm's analysis of it. Another work compares this argument to Hume's solution to the problem of causation, claiming that it shows how ordinary practices do not require the justification we think, even if we concede the impossibility of truth-conditions. The claim that this is a "skeptical solution to the skeptic's paradox" appears in a book that opens with the example of the (*) "quus function" and argues that it is a corollary of a larger argument about rule-following. That book is by Saul Kripke. The reader is asked to imagine a person who writes "S" every time he feels a sensation in its original formulation in *Philosophical Investigations*. For 10 points, name this argument by Ludwig Wittgenstein against a system of communication available to only one person.**

ANSWER: private language argument [prompt on "rule-following problem/paradox"]

4. This character observes, “So many young men get their likes and dislikes from Mencken” while riding down an ugly street to meet an unshaved gambler at the only café in the neighborhood that taxi drivers ever drop people off at. A man who raves that Lincoln was in love with Grant accompanies this character on a bus trip to go fishing in the Irati River. This character claims that “all countries just look like the moving pictures” while refusing to go to South America with a friend who repeatedly re-reads (*) *The Purple Land* to take his mind off Frances. Watching a group of homosexuals dance with the prostitute Georgette enrages this character, who is denounced as a “damned pimp” before being knocked out cold by a former Princeton boxer. For 10 points, name this rival of Mike Campbell, Pedro Romero, and Robert Cohn for the affections of Lady Brett Ashley, an impotent war veteran in *The Sun Also Rises*.

ANSWER: Jake Barnes [accept either]

5. In one of these works by this composer, in D major, the second violins must use their bows to tap a quarter-note rhythm on their music stands. Another of these works by this composer opens with a loud snare drum roll followed by a soft snare drum roll, before a *tutti* march in E major. One of these opens with a slow section in E minor for five solo cellos. The closing themes of these pieces are typically introduced by a couple of instruments at a soft dynamic, to which the entire orchestra is gradually added as the dynamics increase, producing their composer’s namesake (*) “crescendo”. In one of these, a thunderstorm in E minor is followed by an Alpine “Ranz des Vaches” for the English horn, alternating with flute, which leads into an E major *galop*, known in pop culture as the “Lone Ranger” theme. For 10 points, name these instrumental pieces played before the curtain rises for *The Thieving Magpie* or *William Tell*.

ANSWER: opera overtures by Gioachino (Antonio) Rossini [both underlined components required; be very generous, and prompt on partial answer; prompt on “operas by Rossini” or “operas”]

6. A time- and spin-resolved femtochemical variant of this technique can be used to study the dynamics of image-potential states at interfaces by measuring the difference between occupied and unoccupied states. This technique produces two distinct peaks for methane, revealing an inadequacy of the hybridization model. A helium discharge lamp is used in an angle-resolved variant of this technique that is applicable only to the valence region, unlike a (*) high-energy variant used to probe core levels from information about the top ten or so nanometers of a surface. Lone pairs display peaks without spin-orbit splitting in this technique, which for the hydrogen atom produces a sharp band at 13.6 eV. For 10 points, name this technique that measures the kinetic energy of ejected electrons in order to estimate the ionization energy of the orbitals of atoms or molecules that have been excited by photons.

ANSWER: PES [or photoelectron spectroscopy; or photoelectric spectroscopy; or photoemission spectroscopy; accept XPS or X-ray photoelectron spectroscopy; accept UPS or UV/ultraviolet photoelectron spectroscopy; accept ESCA or electron spectroscopy for chemical analysis; accept 2PPE or femtosecond time-resolved two-photon photoemission; accept TRPIS or time-resolved photo-ion spectroscopy; accept ARPES or angle-resolved photoemission spectroscopy; accept ARUPS or angle-resolved UV/ultraviolet photoemission spectroscopy]

7. Gideon Welles wrote to Edouard de Stoeckl that the presence of two different naval fleets from this country in New York and San Francisco during the autumn of 1863 was “a source of pleasure and happiness.” This country was the first to enjoy most-favored-nation status with the United States, and it signed a treaty affirming its trading rights in 1824 following the issuance of the Monroe Doctrine. Formal diplomatic relations were established between this country and the US during the Madison administration when (*) John Quincy Adams was dispatched as ambassador. The desire to isolate the Royal Navy’s base at Esquimalt and to gain control of the lucrative seal fishery were motivations for the \$7.2 million transaction with this country known as Seward’s Folly. For 10 points, name this country that had previously colonized Alaska.

ANSWER: Russia

8. This author inspired a 20th-century poem that describes a poster that says: “my bleeding is under control”, and includes the line: “The grammar turned and attacked me”. In an analysis of one poem by this author, the images of an eagle, a dove, and a candle are said to be fused in that poem’s reference to “the phoenix riddle”. The speaker of one poem by him declares that if even if his story is “unfit for tomb or hearse”, it is nonetheless “fit for verse”. That poem by him begins: “For (*) God’s sake hold your tongue, and let me love”, and compares poetry to a “well-wrought urn”. Another poem by him declares “’Twere profanation of our joys / To tell the laity of our love”, and compares parting lovers to feet of a compass, in its most famous conceit. For 10 points, name this Metaphysical poet, the author of “The Canonization” and “A Valediction: Forbidding Mourning”.

ANSWER: John Donne

9. One figure in this book takes four servants and two camels to Rages of Media to acquire ten talents of silver by showing a bond to Gabael. In this book, the daughter of Edna and Raguel decides to pray for God to kill her instead of strangling herself at the same time that another figure prays for death after demanding the return of bleating kid. The title figure of this book returns home from Nineveh for Pentecost and learns that a fellow man of Naphtali has been strangled before he is blinded by (*) sparrow droppings, though his sight is later restored by the gall of a fish. This book describes the marriage of the title figure’s son to the sevenfold-widowed Sarah, as engineered by Brother Azariah, who is really a disguised archangel. For 10 points, name this apocryphal biblical book which centers on Raphael binding the husband-slaying demon of lust Asmodeus, and which is named for the righteous father of Tobias.

ANSWER: Book of Tobit [accept Book of Tobias before mentioned]

10. The Pedersen Index measures the volatility of these events. One kind of these occurs when tensions are resolved in a “flashpoint,” according to a model of them created by Walter Dean Burnham. Angus Campbell began an ongoing research project studying these at the University of Michigan. Paul Lazarsfeld presented his model of communication flowing from mass media to opinion leaders in a book studying events surrounding one of them. (*) V.O. Key proposed an especially important type of these events in an article focusing on these events in New England in the 1920s. That “critical” version results in a major realignment, such as the beginning of the New Deal coalition. The “Bradley Effect” attributes a difference between the outcome of one of these events and what surveys forecast in advance to racism. For 10 points, name these events during which people vote for candidates.

ANSWER: elections [prompt on “voting”]

11. The Borghese Gallery owns a terracotta model of this sculptor’s original design for an equestrian statue of a certain French monarch dressed like a sandal-clad Roman general. A crack in the forehead necessitated the replacement with a copy of a bust by him that shows the title figure in a biretta and cardinal’s robes. On top of a red marble sarcophagus, he depicted a woman dressed in a nun’s habit, lying on a cushioned couch, while clutching her breast. This sculptor of an equestrian statue of (*) Louis XIV, a bust of Scipione Borghese, and *The Blessed Ludovica Albertoni* carved a Greek god’s translucent flying drapery in one work in which another figure’s legs are sheathed in bark and her fingers are turning into branches. Another of his sculptures show an angel pointing a sphere at the title open-mouthed saint. For 10 points, name this sculptor of *Apollo and Daphne*, whose Cornaro Chapel contains his *The Ecstasy of St. Theresa*.

ANSWER: Gian Lorenzo Bernini [or Giovanni Lorenzo Bernini]

12. **The complete destruction of these bodies after their internal pressure is reduced by positron-electron annihilation is likely responsible for the early uniform distribution of heavy elements in the interstellar medium. That end-state of these bodies, unique to objects between 140 and 260 solar masses, is known as a pair-instability supernova. The era in which these objects formed ended when the primordial gas was sufficiently “pre-enriched” that cloud fragmentation proceeded in multiple steps. Despite their high mass, these objects did not process material via the (*) CNO cycle. The fact that even halo stars have Z/H ratios six orders of magnitude higher than is consistent with accepted models of the Big Bang gave rise to the hypothesis of these objects’ existence. The formation of these objects signifies the end of the cosmic dark ages. For 10 points, name this hypothetical extremely low- or zero-metallicity oldest generation of stars in the universe.**

ANSWER: **Population III** Stars [prompt on “early stars,” “first stars,” or similarly vague descriptions]

13. **With the aid of Theodor Bartus, Albert von Le Coq obtained 360 kilograms of artifacts in an expedition into this desert. Aurel Stein made his most famous discovery in this desert, and Gustaf Mannerheim accompanied Paul Pelliot on an expedition in this desert where they discovered documents written in one language’s Kuchean dialect. It is suspected that red-haired mummies with Europoid features discovered in this desert spoke (*) Tocharian languages, and the Gushi culture was centered in this desert. In an oasis town in the east of this desert, thousands of Sogdian language documents were discovered in the Mogao caves by the abbot Wang Yuanlu. The town of Dunhuang is located in the eastern portion of this desert, which comprises much of the Tarim basin. For 10 points, name this desert where the Uyghur-dominated cities of Kashgar and Urumqi may be found in Xinjiang province.**

ANSWER: **Taklamakan** desert [or **Teklimakan** desert]

14. **In this play, one character remarks that gentility is like small-pox: a man may get over it, but it leaves marks. One character in this play mocks another for reading a book titled *Fatal Love*, and asks her to take over his sweeping duties. Another character in this play tells the story of a poor man who is sustained by a belief in a “land of righteousness” but who commits suicide after a scholar shows that there is no such land on the map. Anna, the wife of a (*) locksmith, dies from tuberculosis in this play, in which a former actor dreams of going to a sanatorium for treatment for his alcoholism. Vassilissa begs her lover to kill her husband in this play, in which Satine argues about the value of telling lies to give comfort with the old man Luka, who encourages Natasha to run away with Vaska Pepel. For 10 points, name this play about people living in the title impoverished circumstances, by Maxim Gorky.**

ANSWER: *The* **Lower Depths** [or **Na Dne**]

15. **The Skáldskaparmál notes that a kenning for earth is this deity’s mother-in-law. It also states that, prior to his death, Hrungrnir threatened to kill all the gods except Freya and this one. During an insulting contest, the gray-bearded ferryman Harbard tells his passenger that this deity is probably entertaining a lover. One suitor of this deity’s daughter was tricked by this deity’s spouse into answering questions outside until (*) dawn, at which point the sun turned him into stone; that prospective son-in-law was the dwarf Alvis. It is unknown who fathered this goddess’s own son Ullr, but it was with her famous husband that she had Thrud. The Sons of Ivaldi crafted a piece of golden headwear for this goddess after Loki mischievously snuck into her bedroom as she slept and cut off her hair. For 10 points, identify this gold-haired Norse goddess, the wife of Thor.**

ANSWER: **Sif**

16. **In one work by this artist, yellow hats obscure the facial features of men in boats holding yellow oars with pointed paddles. A bottle of wine and tumbler sits in the bottom right corner of a painting by him in which light streams from a window with white trellis-like grille work. That work by this artist of *Skiffs on the Yerres* depicts three shirtless men in black pants bent over their work, and surrounded by wood (*) shavings. A brown-and-white dog walks away from the viewer in a painting by him showing an approaching woman with a parasol, and a man in a light gray coat leaning over the railing on the right. A green lamppost divides the canvas in a work by his painter of *The Floor Scrapers* and *The Bridge of Europe*, showing men and women huddled under umbrellas. For 10 points name this French Impressionist painter of *Paris Street, Rainy Day*.**

ANSWER: Gustave **Caillebotte**

17. One formula partially named for this man breaks down at small temperature differences in the denominator, which must then be raised to the critical exponent to give better approximations. His namesake constant, found in the numerator of that equation, can be found by inverting the slope of a graph of molar susceptibility versus temperature. At very high temperatures, his namesake constant in the equation partially named for him is replaced by (*) Weiss's constant. One law named for this man, valid for large temperatures and weak fields, states that magnetisation is proportional to magnetic field strength over temperature, or that M equals χ times H . This man's namesake "point" for iron is 1043 Kelvin and is the temperature at which ferromagnetism gives way to paramagnetism. For 10 points, identify this scientist who was married to radiation-studying Marie.

ANSWER: Pierre Curie [accept Pierre Weiss before "numerator"]

18. An anecdote told to Saint Anselm about this man by Hugh of Cluny related that Hugh had been walking behind him contemplating this man's pursuit of glory in silence when he turned and said "It's a lie; I seek not my own glory but that of the Holy Apostles." A victory by this man's opponent at the Battle of Langensalza galvanized him to resume opposition to this man, which he'd been forced to abandon by the Saxon Rebellion. Empress Agnes and Matilda of Tuscany were allies of this man, and the latter provided him with a military force as he was being challenged by both Agnes' son, who succeeded in exiling him, and Robert Guiscard. The temporary imprisonment of this man by his formerly faithful supporter Cencio I Frangipane was a sign that his (*) zeal had crossed a political line, though he was initially successful in forcing a capitulation at Canossa. For 10 points, name this reforming pope, the former Hildebrand of Sovana, who launched the Investiture Controversy against Henry IV.

ANSWER: Saint Gregory VII [accept Hildebrand of Sovana before that name is given]

19. The Satellite Sentinel project was created to monitor military activity in this country, and a UN peacekeeping mission in this country is led by Hilde Johnson. In 2012, this country's military was forced to withdraw after it had seized the town of Heglig from a neighbor. A referendum is planned determine whether an area which this country claims will join this country's Bahr el Ghazal region; that is the Abyei region. One group active in this country opposes the existence of the Murle ethnic group, and is known as the (*) "white army." An ongoing conflict in this country involves a force loyal to former vice president Riek Machar; that conflict has seen attacks on both American evacuation helicopters and a UN base in this country's Jonglei state, and pits an ethnic Nuer forces against those loyal to the president, a Dinka. For 10 points, identify this country currently led by Salva Kiir, which has its capital at Juba.

ANSWER: South Sudan

20. This character mentions that he preferred the soldier to the philosopher in *Sartor Resartus* in a story in which the realization that the floating object thumping against his leg is a saucepan causes this character to start a search for the cook. This character forwards a packet of letters to a man who declared that "giving up your life to [non-white people] was like selling your soul to a brute". He reflects on the suicide of a man who served on the board of inquiry investigating a (*) collision, Captain Brierly. He is the replacement for a man who was killed in an argument over two hens, Freselven. This character, who appears in the short story "Youth", narrates a novel in which Gentleman Brown kills Dain Waris at Patusan. In another work, this character lies and tells a woman that her fiancée's last words were her name, instead of "The horror!". For 10 points, name this narrator of Joseph Conrad's *Lord Jim* and *Heart of Darkness*.

ANSWER: Charles Marlow [accept either underlined answer]

BONUSES

1. One author from this country wrote of the affair between Florian and the shy Ellie Dillahan in *Love and Summer*. For 10 points each:

[10] Name this country of origin of William Trevor, and of Flann O'Brien, who incorporated its traditional hero Finn Mac Cool into his *At Swim-Two-Birds*.

ANSWER: **Ireland**

[10] This contemporary Irish author wrote of the judge Eamond Redmond reconnecting with his family in *The Heather Blazing*. His novel *The Master* is a fictionalized psychological biography of Henry James.

ANSWER: Colm **Toibin**

[10] Thomas Dunne relives memories of serving on the Dublin Metropolitan Police in this Irish author's play *The Steward of Christendom*. He wrote about a soldier in the Royal Dublin Fusiliers in *A Long, Long Way*.

ANSWER: Sebastian **Barry**

2. Several British fishermen contracted bladder cancer after treating their bait maggots with examples of these compounds like chrysoidine and rhodamine. For 10 points each:

[10] Name these soluble coloring agents contrasted with pigments, often synthesized from aromatic amines. Natural varieties include saffron and indigo while synthetic examples include Congo red and methyl orange.

ANSWER: **dyes** [accept any answer with **dyes**]

[10] Dyes can be synthesized in this reaction, in which an arene such as phenol or aniline attacks an electrophilic arene cation. The resulting dye links two aromatic rings with a bridge containing two double-bonded nitrogens.

ANSWER: **diazo coupling** [accept any answer with **diazonium** salts and **coupling**; prompt on "electrophilic aromatic substitution" or "EAS"]

[10] Diazonium groups can be removed from arenes by reacting them with this reducing agent. *Breaking Bad* fans may find it interesting that this oxyacid is occasionally used to reduce ephedrine in meth manufacture.

ANSWER: **hypophosphorous** acid [or **phosphinic** acid; or **H3PO2** or equivalents; or **oxo-λ⁵-phosphinous** acid; or **oxo-λ⁵-phosphanol**; or **hydroxy-λ⁵-phosphanone**; or **hydroxy(oxo)-λ⁵-phosphane**; accept **HPA**]

3. Calomiris and Pritchett used data from these institutions to construct an index of political risk, and Walter Johnson argued that a price surge in them in the late 1850s reflected precautionary hoarding in his book *Soul by Soul*. For 10 points each:

[10] What are these institutions, whose pricing dynamics other scholars have explained with reference to perceptions about the promise of cotton-growing innovation?

ANSWER: **slave markets** [accept alternatives: "**slave auctions**," for example, though the data referenced isn't from auctions per se.]

[10] The slave-trading firm of Franklin & Armfield conducted its northern, exporting operations in this municipality, the usual trans-shipment point for slaves sent to the Lower South.

ANSWER: **Alexandria**, VA

[10] F&A had its southern offices in Natchez, Mississippi and this other municipality, by far the largest slave market in the US. Antoine Dubuclet was a sugar plantation-owner and leader of the black aristocracy in this city.

ANSWER: **New Orleans**

4. This priestess sat on a tripod in the adyton, or innermost chamber, of her shrine. For 10 points each:
[10] Name this priestess, whose name derived from that of a snake slain at the site where she provided prophecies.

ANSWER: **Pythia**

[10] The Pythia was active at this oracle where Apollo slew Python.

ANSWER: **Delphi**

[10] Apollo slew Python at this spring, in which the Pythia would bathe before giving prophecies.

ANSWER: **Castalian** Spring

5. This man argued that Japanese economic success was due to a belief functionally equivalent to the Protestant work ethic in *Tokugawa Religion*. For 10 points each:

[10] Name this sociologist who also wrote about the importance of “civil religion” in American social movements such as the revolution and Civil Rights movement.

ANSWER: Robert (Neelly) **Bellah**

[10] Bellah was a student of this sociologist, whose “AGIL system” describes the four functions he claimed a society must fulfill to remain stable. This functionalist introduced his action theory in *The Structure of Social Action*.

ANSWER: Talcott **Parsons**

[10] In *Habits of the Heart*, Bellah and Richard Madsen coined this word to describe the individualized and private religion that has replaced more public and community-based ones. Its name comes from a woman who described her faith as “just my own little voice.”

ANSWER: **Sheilaism**

6. This character predicts the destruction of humanity in one section, and Ma Kilman helps him draw his veteran’s compensation from the post office. For 10 points each:

[10] Name this former fisherman who has gone blind and spends time in the No Pain Café. He explains to Philoctete that Achilles has been absent because of his search for “his name and his soul.”

ANSWER: **Seven Seas**

[10] Seven Seas serves as a double for the title character of this 20th-century epic poem, in which Achilles and Hector vie for the love of Helen.

ANSWER: **Omeros**

[10] This St. Lucian author of *Omeros* also wrote about Felix Hobain, who imagines that he has become a village healer, in his play *Dream on Monkey Mountain*.

ANSWER: Derek (Alton) **Walcott**

7. The formula for this force uses the same constant as the Larmor formula for power radiated by a point charge. For 10 points each:

[10] Identify this force exerted on a charged particle by the radiation it emits as it accelerates. One of its two namesakes also derived some transformations relevant to special relativity.

ANSWER: **Abraham-Lorentz** force [prompt on **radiation reaction** force]

[10] The magnitude of the Abraham-Lorentz force is proportional to this vector quantity, the time derivative of an object’s acceleration.

ANSWER: **jerk**

[10] The displacement of an object with constant jerk equals velocity times time plus one-half acceleration times time-squared plus this constant times jerk times time-cubed.

ANSWER: **one-sixth**

8. This ballet company was led from 1932 to 1951 by Harald Lander, who choreographed the ballet *Etudes* for it. For 10 points each:

[10] Name this ballet company. August Bournonville served as its master from 1830 to 1877, during which time he choreographed *La Sylphide*.

ANSWER: **Royal Danish** Ballet [or *Det Kongelige Teater Ballet*]

[10] *La Sylphide* is not to be confused with *Les Sylphides*, a ballet arrangement of Chopin’s music by this Russian composer, whose own ballets include *The Seasons* and *Raymonda*.

ANSWER: Alexander (Konstantinovich) **Glazunov**

[10] Frederick Ashton choreographed a 1955 production of this Prokofiev ballet for the Royal Danish Ballet. Its “Dance of the Knights” depicts the Montagues and the Capulets.

ANSWER: **Romeo and Juliet**

9. Peter Novick wrote a work that studies this concept and the rise and fall of its popularity among American historians. For 10 points each:

[10] Name this concept, whose “Question” is the subject of *That Noble Dream*. E.H. Carr attacked one historian's idea of this concept in chapter one of *What is History?* by noting that “the historian is necessarily selective.”

ANSWER: **objectivity**

[10] Carr attacked this 19th century Prussian positivist, who wrote that he sought to represent the past “as it really was” in his *History of the Latin and Teutonic Nations*. His other works include an attempt at a universal history up to the time of Ancient Greece, and he attacked Hegel for ignoring individual agency.

ANSWER: Leopold von **Ranke**

[10] Ranke is noted for being one of the first historians to methodically employ this type of material in his works. Materials of this type are created by people who were present at or otherwise had first-hand knowledge of what they describe, and can include treaties, wills, and diaries.

ANSWER: **primary** sources

10. The principal figure of this sect was mythically trained under Lokeshvarajara. For 10 points each:

[10] Name this sect introduced to China by the Donglin Temple and to Japan by the monk Honen.

ANSWER: **Pure Land** Buddhism.

[10] Followers of Pure Land Buddhism perform this action, which is the recitation of the name of the Amitabha Buddha.

ANSWER: **nianfo** [or **nembutsu**; or **yeombul**; or **niem Phat**]

[10] Pure Land Buddhism is a sect of this “Greater Vehicle” sect of Buddhism, which also encompasses Shingon, Tendai, and Zen.

ANSWER: **Mahayana** Buddhism

11. *Nature's Metropolis* tells the history of the relationship between this city and the environment of the American West. For 10 points each:

[10] Name this city, whose urban structure was studied by Robert Park and which was the site of settlement halls like Hull House.

ANSWER: **Chicago**, Illinois

[10] *Nature's Metropolis* was written by this environmental historian. In 2011 the Wisconsin Republican Party filed a freedom of information request for this UW-Madison professor's emails after he criticized Scott Walker's anti-labor policies on his blog.

ANSWER: William **Cronon**

[10] Cronon criticized this theory as static and deterministic. This theory was proposed by the German geographer Walter Christaller and holds that cities will be situated in a hexagonal pattern to minimize transport costs for raw materials.

ANSWER: **Central Place** Theory

12. Answer the following about object-oriented design, for 10 points each.

[10] In object oriented languages like Java, these are the things that are instantiated to create objects via their constructors. This word also appears as the file extension for Java bytecode.

ANSWER: **class**

[10] In this sometimes-criticized design pattern, the instantiation of a particular class is limited to one object. This pattern takes its name from a term in mathematics denoting a set with only one element.

ANSWER: **singleton**

[10] In this design pattern, most commonly used in designing user interfaces, the three namesake components correspond to the underlying representation, the output the user sees, and the part that accepts input.

ANSWER: **MVC** or **Model View Controller**

13. One play by him opens with a group of children playing marbles, while someone is heard singing, "Only a Bird in a Gilded Cage." For 10 points each:

[10] Name this author of *All God's Chillun Got Wings* who fictionalized his own family as the Tyrones in *Long Day's Journey into Night*.

ANSWER: Eugene (Gladstone) **O'Neill**

[10] In this sequel to *Long Day's Journey into Night*, Phil Hogan has Josie seduce Jim Tyrone in order to prevent him from selling his land to Harder.

ANSWER: A **Moon for the Misbegotten**

[10] In *All God's Chillun Got Wings*, Ella Downey destroys Jim's chances of succeeding in this profession. Dr. Gonzo is a member of this profession in Hunter S. Thompson's *Fear and Loathing in Las Vegas*.

ANSWER: **lawyer** [accept "**attorney**", or equivalents; also accept synonyms for "law", such as "**legal profession**"]

14. The first version of this artwork was hung in the upper corner of the gallery when it was first exhibited in the 0.10 show. For 10 points each:

[10] Name this Suprematist painting which was proposed as a possible model for the backdrop to *Victory Over The Sun*, and spawned a series of similarly titled works by its artist.

ANSWER: **Black Square**

[10] This Russian artist, the leading Suprematist, painted *Black Square*, *White and White*, and the cubist work *Knife-Grinder*.

ANSWER: Kazimir (Severinovich) **Malevich**

[10] Malevich exhibited with this group, which Natalia Goncharova left to form the Donkey's Tail group. They purportedly chose their namesake figure for its associations with youth and seething blood.

ANSWER: **Jack of Diamonds** [or **Knave of Diamonds** or **Bubnovyi Valet**]

15. This work argues that the highest truths are inherently paradoxical notions believed through a process of "passionate inwardness" and that therefore "truth is subjectivity". For 10 points each:

[10] Name this work whose title reflects its status as a follow-up to its author's *Philosophical Fragments*. It was one of three works published under the name of Johannes Climacus.

ANSWER: **Concluding Unscientific Postscript to Philosophical Fragments** [or **Afsluttende uvidenskabelig Efterskrift til de filosofiske Smuler**]

[10] The *Concluding Unscientific Postscript* is by this Danish existentialist philosopher, who included "The Diary of the Seducer" in his *Either/Or*.

ANSWER: Søren (Aabye) **Kierkegaard**

[10] In *Either/Or*, Kierkegaard discusses how Don Giovanni's pursuit of the aesthetic ideal is an avoidance of this concept, while Judge Wilhelm's ethical approach misconstrues this concept as "sameness". This term also titles a Kierkegaard work written under the pseudonym Constantin Constantius.

ANSWER: **repetition** [or **Gjentagelsen**]

16. The historian Steven Zipperstein has recently claimed that this event was not state-sponsored and that the Plehve Letter, which supposedly documented the czar's involvement, was a forgery. For 10 points each:

[10] Name this 1903 pogrom in what was then the fifth-largest city in Russia. It was sparked by inflammatory newspaper articles blaming Jews for the murder of a Russian boy in Dubăsari.

ANSWER: **Kishinev** or **Chisinau** pogrom

[10] 1903 is also the first known publication of this book, which alleges an international Jewish conspiracy to take over the world.

ANSWER: **Protocols of the Elders of Zion**

[10] Zipperstein alleges that this man, who editorialized for the Kishinev pogrom and published the *Protocols* in his newspaper *Bessarabetz*, actually wrote the *Protocols* himself on behalf of a reactionary element in government opposed to the czar's modernization.

ANSWER: Pavel Alexandrovich **Krushevan**

17. The sickle-cell genotype is characterized by one of these mutations that replaces glutamic acid with valine in the *HGB* gene that codes for hemoglobin's beta globin subunit. For 10 points each:

[10] Name these single-base mutations that can be classified as either transitions or transversions or as synonymous, missense or nonsense. In *Neurospora*, these mutations are repeatedly induced via the RIP process.

ANSWER: **point** mutations

[10] Some p53 point mutations are examples of this class of mutations that directly interfere with wild-type gene products, typically by forming inactive dimers. Marfan syndrome is caused by one in the gene for fibrillin-1.

ANSWER: **dominant negative** mutations [or **antimorphic** mutations; I guess prompt on "dominant" mutations]

[10] Dominant negative mutations cannot be screened in this test, which crosses two homozygous recessive mutant strains with the same phenotype. If the cross produces a wild-type phenotype, the mutations are on different genes.

ANSWER: **complementation** test [accept word forms; accept **cis-trans** test]

18. The opening movement of this work depicts the jasmine-scented ambience of the Generalife. For 10 points each:

[10] Name this work impressionistic work for piano and orchestra, the last movement of which depicts the Corpus Christi festival in the Sierra de Córdoba.

ANSWER: ***Nights in the Gardens of Spain*** [or ***Noches en los jardines de España***]

[10] *Nights in the Gardens of Spain* is by this Andalusian composer, who included the movement "Song of Will-o'-the-Wisp" in his gypsy-inspired piece, *El amor brujo*, or *Love, the Magician*.

ANSWER: Manuel de **Falla**

[10] This movement from *El amor brujo*, which opens with 23 bars of impassioned trilling, depicts the summoning of the ghost of Candela's husband. A piano transcription of this piece was popularized by Artur Schnabel.

ANSWER: **"Ritual Fire Dance"** [or **"Danza ritual del fuego"**]

19. Hypotheses that this language is related to Japanese are flat-out rejected by nationalists. For 10 points each:

[10] Name this language primarily written using the Hangul alphabet, supplemented by Chinese characters called *hanja*. Some consider this language part of the Altaic family, though it is usually described as a language isolate.

ANSWER: **Korean** [or **Hangugeo**; or **Chosŏnmal**]

[10] This Chosŏn ruler, the only one known as "the Great," promulgated the usage of the Hangul alphabet. This third son of Taejong also widely promoted Confucianism and initially suppressed Buddhism but later tolerated it.

ANSWER: **Sejong** the Great

[10] This institution of scholars, established by Sejong, is credited with the invention of Hangul. Several of this institution's members were part of the "six martyred ministers" killed by King Sejo, who disbanded it.

ANSWER: **Hall of Worthies** [or **Jip Hyun Jun**; or **Jiphyeonjeon**]

20. The protagonist of this work auctions off a copy of *Faust* for a tin lice comb and receives a Red Cross postcard from his mother. For 10 points each:

[10] Name this novel in which Leo Auberg is deported to a Soviet gulag and spends five years in a coke processing plant where one shovel load of coal is worth one gram of bread.

ANSWER: *The **Hunger Angel*** [or ***Atemschaukel***]

[10] This German author of *The Hunger Angel* won the 2009 Nobel Prize for Literature. She also wrote about Irene, who struggles to find love after emigrating to West Berlin, in *Traveling on One Leg*.

ANSWER: Herta **Müller**

[10] This other German writer won the Nobel Prize for Literature in 1972. He wrote about the Faehmel family in *Billiards at Half-Past Nine*.

ANSWER: Heinrich **Böll**