

Cane Ridge Revival

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TOSSUPS

1. In quantum mechanics, the operator corresponding to this quantity equals the square root of the quantity \hbar over $2m\omega$, all times the sum of the raising and lowering ladder operators. One way to calculate tidal forces on a satellite begins by taking the derivative of gravitational force with respect to this vector quantity. Because action remains constant when everything's value for this quantity changes uniformly, Noether's theorem guarantees conservation of (*) momentum. For a point charge, the charge times this quantity's time derivative crossed with the magnetic field gives a term in the Lorentz force. For a constantly accelerating object, the magnitude of the change in this quantity equals final velocity-squared minus initial velocity-squared, all divided by two times acceleration; that change in this quantity is called displacement. For 10 points, identify this vector quantity whose time-derivative is velocity.

ANSWER: position [accept displacement before mentioned, prompt on distance]

2. The speaker of this poem relates how a single wave destroyed a wattle fence he spent half the winter weaving. In this poem, letting apples rot, sacrificing the best of three kids, and cutting a finger off are considered as options to appease a certain figure. This poem's speaker imagines fashioning a live bird out of clay, which breaks its leg and begs the speaker to repair it. The speaker of this poem continually refers to himself in the (*) third person, but without a pronoun, as in its openings lines: "Will sprawl, now that the heat of day is best, / Flat on his belly in the pit's much mire". This poem imagines a figure who created the sun and moon due to being "ill at ease", but who is subordinate to a power called "The Quiet", which the speaker learned from his mother, Sycorax. For 10 points, name this dramatic monologue by Robert Browning in which a character from *The Tempest* meditates upon the nature of the title god.

ANSWER: "Caliban Upon Setebos"; or, Natural Theology in the Island"

3. The finale of one orchestral work by this composer opens with three flutes playing a soft block-chordal melody in E-flat minor, which is responded to by string sextuplets in octaves. The first movement of that work by him opens with tenor tubas playing open fifths before bass trumpets and timpani have a pentatonic dialogue with nine trumpets playing in unison. A "Postludium" for solo organ and an orchestral "Intrada" are the closing movements of a religious work by him that features a central *Credo* titled (*) "Veruju". Solos for the viola in this composer's *Second String Quartet* represent the woman for whom he held an obsessive unrequited passion for his final eleven years: Kamila Stosslova. He wrote a mass in Old Church Slavonic and wrote a work inspired by military fanfares for the Sokol Gymnastic Festival. For 10 points, name this Czech composer of the *Glagolitic Mass*, the "Intimate Letters" *String Quartet*, and a *Sinfonietta*.

ANSWER: Leos (Eugen) Janacek

4. In the title essay of one collection, this thinker posited that the art and literary world reverses the rules of the economic world by making lack of economic success the marker of prestige. He argued that the social origins of the researcher, the researcher's position within his field, and the tendency to view the world as spectacle are the three main biases inhibiting us from achieving "reflexive sociology." This author originated the idea that the prestige associated with certain styles of dress, speech, etc. translate into non-financial social assets. This author of *The (*) Field of Cultural Production* argued that relations between social positions deposit within individuals to create dispositions towards particular perceptions and actions. Those are his concepts of "cultural capital" and the "habitus." For 10 points, name this French sociologist who argued that the concept of "taste" reinforces the social class system in *Distinction*.

ANSWER: Pierre Bourdieu

5. Before one campaign, members of this group were told that they were to “crack the sky, shake the earth.” The Kit Carson scouts consisted of defectors from this group, 19 members of which attempted to capture the building where Ellsworth Bunker was staying. That operation was part of a campaign during which this organization and another used the Parrot’s Beak salient as a base. Allegations that members of this group were thrown out of airplanes were presented during the Winter Soldier Investigation. The Strategic Hamlet program concentrated villagers to oppose this group, and Eddie Adams depicted the summary (*) execution of one of its members in a famous photograph. Unlike the NVA, this organization was not nearly wiped out by forces under William Westmoreland during the Tet Offensive. For 10 points, name this pro-Northern Vietnamese guerrilla group.
ANSWER: **Viet Cong** [prompt on **Vietnamese** people or other unspecific answers]

6. In experiments aimed at replicating natural formation of this mineral, it precipitates within a mucus matrix secreted by sulfate-respiring bacteria to form biofilms. The puzzle surrounding this mineral is that its known contemporary natural origins are confined to a few bacterial mats under super-saline lakes and lagoons and are thus insufficient to explain its prevalence in the geological record, which may be due to anoxic conditions in ancient oceans. This mineral (*) effervesces slowly or not at all in an acid test, distinguishing it from a similar mineral. This mineral, which differs slightly from aragonite, is one of several sedimentary precursors to marble, and its namesake’s first identification of it occurred in a Northern Italian mountain range now named for it, a section of the Alps. For 10 points, name this mineral, which is essentially calcite with some calcium swapped out for magnesium.
ANSWER: **dolomite**

7. This man was the main source outside of the Bible itself drawn upon in writing the Old Testament portion of the *Postillae Perpetuae*. Judah Loew's *Gur Aryeh* is a commentary on this man's writings. This man was the first to define clearly the distinction between the hermeneutical principles of *derash* and *peshat*. Many Jews tie extra tefilin to honor both this man and his son Rabbenu Tam. His halachic rulings are collected in the (*) *Sefer Ha-Pardes* and *Machzor Vitry*. A niche that miraculously appeared to save this man's mother from being run over by a carriage is in his namesake synagogue in Worms. The responses of this man’s followers to his own works are called Tosafot. His namesake script was the first used to print Hebrew. For 10 points, name this 11th-century rabbi whose commentary is reproduced in all printed editions of the Talmud, and whose common appellation is an acronym of "Rabbi Shlomo Yitzhaki".
ANSWER: **Rashi** [accept **Sholmo Yitzhaki** before mention]

8. In the late 1850s, The New York Herald editorialized that this organization’s annual meeting was “an old foggy affair” and asked “can anything be more ridiculous, than keeping up a society such as this?” This organization’s longtime chairman referred to its policy as the “benevolent solution” in a speech for which Abraham Lincoln was in the audience, on his way to take up his congressional seat. Francis Blair, Jr. led a resurgence of this organization, which was central to the Republican party’s efforts in Missouri. Orville Browning wrote a report that referred to “...their own beknighted land” which this organization printed in its magazine. (*) William Lloyd Garrison’s pamphlet *Thoughts on* [this organization’s policy] explains that he came to oppose it thanks to the realization that those it was intended to help mostly spurned it. For 10 points, what is this organization chaired by Henry Clay that sought to defer the issue of black citizenship by sponsoring freedmen’s emigration to Central America and Africa?
ANSWER: **American Colonization Society** [or **ACS**]

9. This artist showed the title author wearing a striped smock in a portrait he made of her at age sixty. He showed one figure carrying a tray of busts on his head while another drags a telescope along the ground in a work whose lower left corner shows two reliefs piled against a column with two busts. That work, which shows a line of caricatures of famous figures snaking across the page, is titled “Pantheon.” He made use of artificial light in a series of photographs showing walls of bone in the (*) Catacombs. This man’s photographs of himself in a balloon carriage are parodied in a work in which this man’s hat flies off his head as he leans out of a balloon over Paris; that is Honoré Daumier’s lithograph of him *Elevating Photography to a Fine Art*. For 10 points, name this Frenchman who photographed artistic contemporaries such as George Sand and Theophile Gautier, and whose real name was Gaspar-Felix-Tournachon.
ANSWER: **Nadar** [accept Gaspar-Felix-**Tournachon** before mentioned]

10. One play set in this non-Venezuelan country opens with a character hawking Polar brand beer as the greatest gift of the white man. That play set in this country repeatedly features a chorus of people dancing the Independence cha-cha. In one novel set here, six-toed footprints left in ashes reveal that a religious leader is responsible for planting poisonous snakes. Dr. Fortunati runs a hospital in this country in a novel in which he cures Sister (*) Luke of her tuberculosis; that is the most famous novel by non-New Zealander Kathryn Hulme. One play set in this country features a chorus of plotting bankers and a sanku player. The Prices are a missionary family in this country in Barbara Kingsolver's *The Poisonwood Bible*. For 10 points, name this setting of a play by Aimé Césaire titled for "A Season in" this country, which depicts the fall of Patrice Lumumba.

ANSWER: Belgian Congo [also accept Zaire, the Democratic Republic of the Congo, and the DRC]

11. Molecules with this coordination number include the intermediate in the counterpart of the Eigen-Wilkins mechanism and the product of the rate-determining step of the S_N1cb mechanism. Tren ligands enforce one geometry of this coordination number, which is exemplified by a complex consisting of a metal atom bonded to a scorpionate ligand and dppe. The failure of fluorine-19 NMR to distinguish between (*) axial and equatorial substituents in complexes with this coordination number led to the discovery that they can isomerize through Berry pseudorotation. Associative substitution reactions that go through intermediates of this coordination number experience the *trans* effect. Intermediates of this coordination number occur in dissociative substitution reactions of octahedral complexes. For 10 points, name this coordination number of square pyramidal and trigonal bipyramidal complexes.

ANSWER: five [antiprompt on "square pyramidal" or "trigonal bipyramidal" before mentioned; do not prompt on "trigonal pyramidal" or "pyramidal" alone]

12. Steven Shapin and Simon Schaffer wrote a book analyzing a scientific debate in which this philosopher denied the existence of the concept of a vacuum. He defined "reason" as the mathematical reckoning of the consequences of agreed-upon names, and defined "right" as the liberty to make use of that faculty of reason. This philosopher, who wrote a treatise attacking the experiments of Robert Boyle, used the term "manners" to describe actions that allow men to live in peace in unity, these actions being forms of (*) "motion", which he believed to be the universal cause of all things. These definitions, some of which he originally formulated in *De Homine* and *De Cive*, were included in a work that advocates forming a Christian commonwealth to escape from the state of nature, which is "the war of all against all". For 10 points, name this English philosopher who argued for the concept of absolute sovereignty in his *Leviathan*.

ANSWER: Thomas Hobbes (of Malmesbury)

13. One section of this work ends with a woman asking an old man whether he has forgotten what love feels like, after he gives her a silver horn when she refuses an envelope of money her lover had left. One character in this work plays poker to win a nullification of his twin brother's wedding engagement. After canceling divorce proceedings at the last minute, one character in this work buys a sack of candy for his wife and returns the metal detector he conned from a salesman to search for buried treasure. The knife that was used to illegally kill a (*) doe is hidden by Roth Edmonds in one part of this work. This work includes a story in which Sam Fathers spares a buck called "Grandfather" and a story in which Boon Hogganbeck joins Ike McCaslin on a hunt for Old Ben, the title creature. For 10 points, name this set of seven interrelated stories by William Faulkner, which include "Delta Autumn" and "The Bear".

ANSWER: Go Down, Moses [anti-prompt on specific stories like "Was", "The Fire and the Hearth", "Delta Autumn" "The Old People" or "The Bear"]

14. The Elymians were early settlers, but not natives, of this location, and they tried to contain Megara Hyblaea's colony of Selinus. Once they realized their strife was opening themselves to domination by this location's hegemon, both parties to civil conflict in Leontini together sought an alliance with Athens, as did the Elymians of Segesta, where the Second Servile War began three centuries later. Sextus Pompey was based in this location during his war with Octavian, and the Battle of the (*) Aegates Islands was fought over control of this location. One text that concerns this location alludes to the abandonment of the countryside that followed violations of a 10% limit on tenant taxation, the Law of Hiero, reducing Roman revenue in the long run; that allegation is brought forward in Cicero's prosecution of this island province's governor Gaius Verres. The tyrants Gelon and Theron together kept this island free of Carthaginian intervention at the Battle of Himera. For 10 points, name this island that became a province following the First Punic War.

ANSWER: Sicily

15. In one painting by this artist, a watering can stands in front of an altar upon which rests a flower-pot decorated with skulls. At the bottom of one of his paintings, a solitary yellow glove lies on the rug next to a tangled, unraveling skein of yarn. In that painting by him, under a table on the left, a greedy-eyed cat plays with a dead bird. Unlike that of Millais, his depiction of Isabella shows her after Lorenzo's death, embracing the pot of basil. The title animal has a red ribbon wrapped around its (*) horns and is dying in the skeleton-littered salt shallows of the Dead Sea in his *The Scapegoat*. Christ carries a lantern and knocks on a door overgrown with weeds in his *The Light of the World*. In his most famous painting, a man in blue smoking jacket lazes in a chair by a piano, while his mistress leaps out of his lap to abandon their love affair. For 10 points, name this Pre-Raphaelite painter of *The Awakening Conscience*.

ANSWER: William Holman Hunt

16. This man analyzed local variations in political migration from the Radical party to Socialism during the Third Republic in his *Socialism in Provence*, a work whose approach this man later repudiated when he called the 1970s "for the life of the mind... the most dispiriting decade of the 20th century" thanks to Structuralism and Social History. This man lambasted the French Left, especially Sartre, for ignoring the crimes of Stalin in his (*) *Past Imperfect*. This man criticized European integration for its undemocratic appeal to universal technocratic enlightenment against ostensibly hidebound local power bases, and late in life he supported the One-State Solution and bemoaned the triumph of neoliberalism in destroying the welfare state whose implementation he chronicled in *Postwar*. For 10 points, name this author of *Israel: An Alternative*, an NYU historian who died of ALS in 2010.

ANSWER: Tony Judt

17. Jablonski argued that this property has an emergent effect on species-level fitness by reducing speciation and extinction rates; he drew that conclusion because this property is much larger on average among planktotrophs than direct-developing larvae. During the Pliocene, this property's size increased among camels via a "secular" process. It's not body or limb size, but this property is larger for species at higher latitudes according to Rapoport's rule. The size of this property can be constrained by filters or the low probability of success on (*) sweepstakes routes. "Vagrants" appear outside the limits of this property, whose size is increased by "jumps" and diffusion, both mechanisms of dispersal. It is small for endemic species. For 10 points, name this geographical extent of the area inhabited by a species.

ANSWER: geographic range size [or population distribution; accept territory; accept reasonable equivalents like geographic area inhabited or geographic extent before mentioned; prompt on "dispersal" before mentioned; prompt on "colonization" or "invasion" or "migration" or related answers; prompt on answers about "habitat" or similar things]

18. One of this author's characters blabbers about a noodle dumpling he plans to feed his guinea hen after being threatened with the loss of his job. In a story by this author, four brothers go mad and intone the *Gloria in excelsis* every midnight after attempting to ransack a cloister in Aachen. In a play by this author, the protagonist complains that a cat littered in his missing periwig shortly before the arrival of Inspector General Walter from Utrecht. In a story by this author, (*) Josefa goes into labor as the bells of a cathedral peal for Corpus Christi and her imprisoned lover Jeronimo is saved from hanging himself by the title event. Lebrecht and Ruprecht are blamed for the central crime of one play by this author until Eve testifies against Judge Adam. For 10 points, name this German Romantic author of "St. Cecilia, or the Power of Music," "The Earthquake in Chile", and *The Broken Jug*
ANSWER: (Bernd) Heinrich (Wilhelm) von Kleist

19. Torbjörn Fälldin was the leader of one party by this name and served as Prime Minister of Sweden in the late 1970s. Urho Kekkonen, who maintained close ties with the Soviet Union as Finland's long-serving President, was also the leader of a party with this name; both Scandinavian versions of this party traditionally supported decentralization and were based in rural areas. The dissolution of a party with this name was a condition of the Reichskonkordat, which followed the failure of (*) Heinrich Brüning's government, and he was replaced as leader by Franz von Papen, who accepted false assurances in return for passing the Enabling Act. That party by this name formed in Bavaria in reaction to the Kulturkampf. For 10 points, give this name of a Catholic political party that caved to Hitler.

ANSWER: Center Party [or Zentrum; accept "Catholic Center" even though that's not strictly right for the Scandinavian ones]

20. One work by this author advises another man to avoid frequenting the Agora, and to "call your friend to a feast but leave your enemy alone"; that work by this author also describes the ten thousand spirits who keep Zeus appraised of the justice practiced among men. This man's most famous work begins by explaining how the muses on Helicon gave him a laurel staff. In one work, he claimed that Aidos and Nemesis would abandon the earth at the end of his (*) age, while in another work he described how Prometheus tricked Zeus into accepting animal fat as an offering and was bound to a rock. Those two works by this author describe the births of the gods and the conflict of the Olympians and the Titans, and give agricultural advice to his brother Perses. For ten points, name this author of *Works and Days* and *Theogony*.

ANSWER: Hesiod

BONUSES

1. The protagonist kills two men during robberies after his romantic relationship with Nicole Baker ends. For 10 points each:

[10] Name this non-fiction novel by Norman Mailer about Gary Gilmore, who demands to be shot by firing squad.

ANSWER: *The Executioner's Song*

[10] The genre of non-fiction novel was popularized by this author's account of the murder of the Clutter family in his *In Cold Blood*.

ANSWER: Truman Capote [or Truman Streckfus Persons]

[10] John Berendt captured the colorful residents of Savannah, Georgia in this non-fiction novel that focuses on Jim Williams' murder of male prostitute Danny Hanford.

ANSWER: *Midnight in the Garden of Good and Evil*

2. The Vienna Dioscurides contains one of these showing Anicia Juliana in an eight-pointed star formed from knotted ropes. For 10 points each:

[10] Name this type of painting showing the person who funded a specific work of art. They may sometimes show a person holding a model of a church.

ANSWER: donor portrait [or votive portrait; or patron portrait; be generous and accept "painting" instead of "portrait"]

[10] This octagonal building contains donor portraits of Justinian I and Theodora with their retinues. A group of soldiers hold a shield with a chi-ro in that mosaic in this building, and Justinian wears a purple cloak and has a halo.

ANSWER: Basilica of San Vitale

[10] The Wilton Diptych shows Richard II of England with Edward the Confessor, Edmund the Martyr, and this saint. He is normally shown wearing skins and carrying a lamb or performing his namesake action on Jesus.

ANSWER: John the Baptist [prompt on "John"; do NOT prompt on or accept "John the Evangelist"]

3. Norepinephrine initiates the activation of this protein, which may function by acting as a proton ionophore or by causing the futile cycling of carboxylates. For 10 points each:

[10] Name this protein that dissipates the proton motive force across the inner mitochondrial membrane, severing the link between oxidation and phosphorylation. Pigs lack this protein, which mediates NST.

ANSWER: thermogenin [or uncoupling protein 1; or UCP1]

[10] Thermogenin is expressed in the mitochondria of this tissue, whose development is regulated by FOXC2 in mice. Babies and hibernating mammals avoid hypothermia with this tissue, which has anti-obesity applications.

ANSWER: brown fat [or brown adipose tissue; or BAT; prompt on partial answer; accept beige fat]

[10] Most mammals accomplish short-term thermogenesis through this reflexive mechanism, which involves uncoordinated muscle contraction without movement after exposure to a cold environment.

ANSWER: shivering [or shuddering; accept rigors]

4. In one story, this figure rides a tiger to comfort the souls of the Land of the Dead after her father sets a temple on fire. For 10 points each:

[10] Name this "goddess of mercy," an aspect of Avalokiteśvara who can put out fires with her hands. This thousand-armed bodhisattva of compassion teaches the crippled Sudhana.

ANSWER: Guanyin [or Kuan Shi Yin; accept Kannon; accept Mae Kuan Im; accept other variants; accept Miaoshan]

[10] Guanyin sets into motion the plot of *Journey to the West*, which stars Sun Wukong, the "king" of these animals. Clever people are born in the zodiac year of these animals, which fight Ravana under Hanuman.

ANSWER: Old World monkeys [accept Catarrhini; accept simians; accept specific species; prompt on primates or other less specific answers]

[10] Monkeys attempt to eat mangos from a tree in one of these stories describing the previous lives of the Buddha. These stories are often set near Varanasi and include "The Golden Mallard" and "The Talkative Tortoise."

ANSWER: Jataka tales [accept variants; prompt on Panchatantra tales since they overlap a lot]

5. During the civil war that followed the Russian Revolution, an allied expeditionary force from Britain and the US landed in this city in support of white partisans. For 10 points each:

[10] Name this port city, the only one in western Russia secure from the German army. The allied army advanced along the Dvina before they were halted by the Soviets and eventually withdrawn.

ANSWER: **Murmansk**

[10] One aim of the Murmansk deployment was to support this white Russian admiral, who nominally controlled Siberia from his provisional capital in Omsk. After his government fell apart, he fled east and was eventually executed and dropped through the ice of the Angara River.

ANSWER: Alexander (Vasilyevich) **Kolchak**

[10] Another reason for the allied intervention was to repatriate units from this new country, who had fought for the Russian army in World War I in order to secure its independence from Austria. This country's first president was Thomas Masaryk.

ANSWER: **Czechoslovakia**

6. Samuel Preston showed this variable for newborns increases concavely with income. For 10 points each:

[10] Name this value, which for a given age is the average total years of life.

ANSWER: **life expectancy**

[10] This economist claimed increased life expectancy and other physiological changes were due entirely to public health factors in *The Escape from Hunger and Premature Death, 1700-2100*. He more controversially argued slavery was efficient and profitable in *Time on the Cross*, co-authored with Stanley Engerman.

ANSWER: Robert (William) **Fogel**

[10] This two-word concept refers to the multi-stage process by which life expectancy increases with economic and social development, giving rise to lower birth and mortality rates. Investment in public health and the adoption of contraception are both components of this concept.

ANSWER: **demographic transition**

7. This essay claims that George Meredith has mastered everything as a writer, except language; can do everything as a novelist, except tell a story; and is everything as an artist, except articulate. For 10 points each:

[10] Name this essay in which Vivian tries to convince Cyril that imagination is superior to realism, and that Life imitates Art rather than vice versa.

ANSWER: "The **Decay of Lying**"

[10] "The Decay of Lying" is by this Irish author, who wrote of Jack Worthing and Algernon Moncrieff's adoptions of the title name in *The Importance of Being Earnest*.

ANSWER: Oscar (Fingal O'Flahertie Wills) **Wilde**

[10] As a baby, Jack Worthing was accidentally left in one of these objects in Victoria Station. Dame Edith Evans' delivery of this word is the most famous part of her performance as Lady Bracknell.

ANSWER: a **handbag** [grudgingly accept **purse**; prompt on "bag"]

8. This phenomenon can occur in a system of n atoms, each of which can be in one of two states, when more than half of them are in the excited state. For 10 points each:

[10] Identify this counter-intuitive situation a system can be in. When brought into contact with a more conventional system, heat will always flow from a system in this state to one not in it.

ANSWER: having a **negative temperature**

[10] Having a negative temperature is possible because temperature is equal to one over this function of entropy and energy.

ANSWER: partial **derivative** of entropy with respect to energy

[10] Systems with a negative temperature still have more entropy than systems which are at this point. At this point, entropy is minimized, according to the third law of thermodynamics.

ANSWER: **absolute zero**

9. Despite his incompetence, this man was a royal favourite until he was killed in 1628. For 10 points each:

[10] Name this man, who was in charge of negotiating the marriage of the future Charles I to Infanta Maria Anna of Spain. This man also led a failed expedition to aid the Huguenots in 1627.

ANSWER: George Villiers, 1st Duke of Buckingham [accept either underlined portion]

[10] The Duke of Buckingham primarily negotiated with this Galician diplomat, who led an embassy in England from 1613 to 1622. This man was caricatured as the Black Knight in Thomas Middleton's play, *A Game at Chess*.

ANSWER: Diego Sarmiento de Acuña, Count of Gondomar [accept either underlined portion]

[10] Charles I ended up marrying Queen Henrietta Maria of France, after whom this Catholic named the Province of Maryland in North America.

ANSWER: John Calvert, 1st Baron Baltimore [accept either]

10. Answer some questions about periods of fasting in the Eastern Orthodox Church, for 10 points each.

[10] The most important fasting time is this 40-day period stretching from Clean Monday till the vigil on Easter churches. In Western Christianity, this period begins on Ash Wednesday.

ANSWER: Great Lent [or Tessaracoste]

[10] A two-week fast precedes this Orthodox holiday, which commemorates the death of the Theotokos. An Epitaphios of Mary is paraded on this holiday.

ANSWER: Dormition of the Virgin [or Koimesis Theotokos; or Uspenie Presvetia Bogoroditsi]

[10] Besides Lent and the Dormition, the other two main fasts are the Nativity Fast, and this fast, which honors the fast that the title group observed for the ten days after Christ's Ascension, in preparation for receiving the Holy Spirit.

ANSWER: Apostles' Fast [or Fast of the Holy Apostles; or Fast of Peter and Paul; or St. Peter's Fast]

11. The sixth of these works was dedicated to and named for Baron von Dürnitz, and the last of them is sometimes nicknamed for its hunting-call-like opening motif. For 10 points each:

[10] Name these eighteen solo keyboard works. The eleventh of these, in A major, opens with a set of variations on a theme in 6/8 marked "*Andante grazioso*", and closes with a piece imitating Janissary percussion.

ANSWER: piano sonatas by Wolfgang Amadeus Mozart (prompt on partial answer)

[10] Mozart's Piano Sonata K. 545, also known as the "Sonata Facile", is in this key. This major key with no sharps or flats in its key signature is also the key of Mozart's Jupiter Symphony.

ANSWER: C major

[10] In many movements of Mozart's Piano Sonatas, the left hand plays this kind of arpeggiated accompaniment figure, in which the three notes of a chord are played in a low-high-middle-high sequence, in short and even note values.

ANSWER: Alberti bass

12. Answer the following about round-robin quizbowl tournaments, for 10 points each:

[10] Round-robin quizbowl tournaments can be mathematically represented as the complete directed variety of these entities, consisting of vertices and several edges connecting them.

ANSWER: directed graphs

[10] If everything works out perfectly, so that the higher-seeded team always wins their games, then the digraph will have this property, which for a connected digraph means that there will be precisely one Hamiltonian path. Trees also have this property of having no "loops" in their graph.

ANSWER: acyclicity

[10] The minimum possible value of this quantity for a quizbowl tournament is 3, when a circle of death happens. This value is the length of the shortest cycle in a graph, and is infinite for acyclic graphs.

ANSWER: girth

13. Albert Lasker's innovative advertising campaign is credited with helping this candidate. For 10 points each:

[10] Identify this candidate, who defeated Leonard Wood to earn the nomination of his party for president in a campaign organized by Harry Daugherty. He was nominated by consensus in a "smoke-filled room."

ANSWER: Warren Gamaliel **Harding**

[10] In the general election, Lasker employed this type of campaign, which brought more than 600,000 people to Harding's home in Marion, Ohio to hear him speak. Mark Hanna employed a similar strategy with William McKinley.

ANSWER: **front-porch** campaign

[10] One of Lasker's innovations was the use of celebrity surrogates like this actor and singer, who sang the campaign song "Harding, You're the Man for Us" as well as "Keep Cool and Keep Coolidge." In his most famous film, he played Jackie Rabinowitz.

ANSWER: Al **Jolson** [or Asa **Yoelson**]

14. One character in this novel pads her stomach to fake a pregnancy and later forces a couple to take sleeping powder every night. For 10 points each:

[10] Name this novel about Sonoko, whose marriage deteriorates when she starts a lesbian affair with the manipulative model Mitsuko, and who signs a blood pact with her lover's impotent boyfriend Watanuki.

ANSWER: **Quicksand** [or **Manji**]

[10] Sumire falls for an older Korean woman and disappears into a parallel world on a Greek island in this novel. K. learns that Miu saw herself have sex with a Spaniard while trapped on a ferris wheel in this Haruki Murakami novel.

ANSWER: **Sputnik Sweetheart** [or **Supūtoniku no Koibito**]

[10] Otoko has a lesbian relationship with Keiko in this author's novel *Beauty and Sadness*. This author's other works include the Palm-of-the-Hand Stories, *The Sound of the Mountain* and *Snow Country*.

ANSWER: Yasunari **Kawabata**

15. Milt Jackson played this instrument in the Modern Jazz Quartet. For 10 points each:

[10] Name this jazz instrument played by Gary Burton, and by the man who joined up with Gene Krupa, Teddy Wilson, and Benny Goodman to form the Benny Goodman Quartet: Lionel Hampton.

ANSWER: **vibraphone** [or **vibes**; do NOT prompt on or accept "xylophone"]

[10] Before joining the Modern Jazz Quartet, Milt Jackson played vibraphone in this trumpeter's sextet. This composer of "Salt Peanuts" is often credited with co-creating bebop with Charlie Parker.

ANSWER: (John Birks) "Dizzy" **Gillespie**

[10] Dizzy Gillespie's most popular standard is perhaps this tune, co-written with Frank Paparelli. It features a bass *ostinato* that alternates between an E-flat seventh chord and a D minor sixth chord.

ANSWER: "A **Night in Tunisia**"

16. His masterwork was an eighteen-volume theological work printed in 1482 that argued for the Classical conception of the immortality of the soul within a Christian framework. For 10 points each:

[10] Name this Italian philosopher who translated and assembled the modern *Corpus Hermeticum*, and who further attempted to syncretize Classical and Christian thought in his *Three Books on Life*.

ANSWER: Marsilio **Ficino** [or Marcellius **Ficinus**]

[10] Ficino was the leading figure in the Italian Renaissance iteration of this philosophical movement. At Cosimo de Medici's behest, Ficino led the Florentine version of the Academy named for this movement's eponymous thinker.

ANSWER: **Neo-Platonism** [prompt on "Platonism"; accept word forms, like "**Neo-Platonic**"]

[10] This humanist tract, written by a younger contemporary of Ficino's, discusses the hierarchy of angels that help our species, which attempts to attain perfection through our unique capacity for self-transformation.

ANSWER: **Oration on the Dignity of Man** [or *De hominis dignitate*]

17. Identify aspects of an unknown molecule from information about its proton NMR spectrum, for 10 points each:

[10] At around 5.5 ppm, the molecule's spectrum includes a broad singlet peak that disappears when deuterated water is added, indicating the presence of this functional group. Secondary ones can be formed by reducing a ketone with LAH.

ANSWER: secondary alcohols [or hydroxyl groups; or OH]

[10] The molecule's spectrum shows an intense, messy multiplet peak at around 7.0 to 7.5 ppm. It also has four degrees of unsaturation. How many of those degrees of unsaturation are accounted for by this peak?

ANSWER: all four [or equivalents like all of them]

[10] Warning! Two answers required! The molecule's proton NMR spectrum shows two other peaks that lead you to identify it as an ethylphenol. What splitting multiplicity did you observe in each of those two peaks?

ANSWER: triplet and quartet [I guess accept three and four or any answers derived from those two numbers; accept answers in either order]

18. In one scene in this play, Simón and Calamocha have a weird exchange in which both pretend not to understand the other when asked the reason for their business in Alcalá de Henares. For 10 points each:

[10] Name this play by Leandro Fernández de Moratín in which Francisca marries Carlos after Diego concludes that she should decide who to marry, one of the first Spanish works to criticize a woman's lack of say in her marriage.

ANSWER: *The Maiden's Consent* [or *El sí de las niñas*]

[10] The oppressed daughters of the title character of this Spanish play squabble over their affections for the unseen Pepe el Romano. It forms part of Federico García Lorca's rural trilogy along with *Blood Wedding* and *Yerma*.

ANSWER: *The House of Bernarda Alba* or [*La casa de Bernarda Alba*]

[10] In *The House of Bernarda Alba*, this character defies Bernarda Alba by wearing a green dress, eventually admits to her love affair with Pepe, and breaks the cane that represents Bernarda's power.

ANSWER: Adela

19. Emperors had basically no authority during this period and were confined to the city of Gondar. For 10 points each:

[10] Name this period, which traditionally began with the deposition of Iyoas I and was ended by Kassa Hailu, who was crowned shortly after the Battle of Derasge.

ANSWER: Zemene Mesafint [or Era of Princes; or Era of Judges; accept Age and similar for "Era"]

[10] Kassa Hailu, who would later commit suicide at the fortress of Magdala, took this name and number when he became emperor of Ethiopia. This regnal name and number is shared by the current Patriarch of Alexandria and a Tsar who was the son of Boris Godunov.

ANSWER: Theodore II [or Tewodros II; or Theodoros II; or Feodor II; or various cognates]

[10] Tewodros II imprisoned several diplomats at Magdala on suspicion that he had received an insult from this ruler, whose empire sent Robert Napier on a military expedition to deal with the resulting crisis.

ANSWER: Queen Alexandrina Victoria

20. In November 2013, an agreement between these two powers that would have required one to gradually adopt the other's policies protecting certain food names suddenly stalled. For 10 points each:

[10] Identify these two powers, which would have formed a "Deep and Comprehensive Free Trade Area". One party sought reforms to create an independent judiciary in the other as a precondition to the signing of the agreement.

ANSWER: the European Union [or EU] and Ukraine

[10] This recently-ousted president of Ukraine backed out of negotiations with the EU, sparking the Euromaidan protests. He was previously a target of the Orange Revolution.

ANSWER: Viktor Yanukovych

[10] Yanukovych was supported by this political party, which is led by former prime minister Mykola Azarov. In the 2012 election, it derived its support primarily from the Russian-speaking areas of eastern Ukraine.

ANSWER: the Party of Regions [or Partiya Regionov]