

Stevenson Memorial Tournament 2018

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Packet 11

Tossups:

1. Perry Anderson's *The New Old World* begins by discussing a book about an organization named for these things by Ernst B. Haas. During one event, workers primarily producing these two things were encouraged to engage in passive resistance by Wilhelm Cuno's government. The head of the National Planning Board called for his country to increase production of these two things in the Monnet Plan. The regulation of these commodities by a High (*) Authority was intended to make war "not merely unthinkable, but materially impossible" according to the Schuman Declaration. These two commodities are the most notable products of the Ruhr region, and they named an organization with six member states that created the EEC via the Treaty of Rome. For 10 points, name these two resources regulated by a community that eventually became the European Union.

ANSWER: coal AND steel

<JB European History>

2. States describing the energy of this structure using a finite one-dimensional Bose gas were considered in a 2014 paper by Kaminishi et al. Those states, the lowest energy states of this structure, are known as yrast states. The force on components of these structures can be estimated by the Woods-Saxon potential. In a model proposed by George (*) Gamow ["GAM-off"], this structure is approximated as a drop of incompressible fluid and can be analyzed using the Bethe-Weizsäcker ["beta VYTE-secker"] formula. This structure's existence was first shown in an experiment that fired alpha particles at gold foil and measured their deflection, carried out by Geiger and Marsden. For 10 points, name this structure in the atom that solely consists of protons and neutrons.

ANSWER: atomic nucleus

<DM Physics>

3. A critical study titled for this phrase argues that there are two versions of the book it appears in, with the second being influenced by the author's reading of *King Lear*; that study is by the poet Charles Olson. A sentence about something John's parents almost did follows a parody of this phrase in Kurt Vonnegut's *Cat's Cradle*. This sentence opens a paragraph that describes times when the protagonist finds himself "involuntarily pausing before coffin warehouses" or experiencing a "damp, drizzly (*) November of the soul." This sentence begins the chapter "Loomings," which is followed by a description of the protagonist's arrival at the Spouter-Inn and encounter with the cannibal Queequeg. For 10 points, give this first sentence of Herman Melville's *Moby Dick*.

ANSWER: "Call me Ishmael"

<JB American Literature>

[NOTE: Read the answerline before reading the tossup]

4. **This is the [emphasize] *most prominent* color in a series meant to make its viewers feel trapped in a room where “all that they can do is butt their heads forever against the wall.” (+) Barnett Newman instructed viewers to stand close to his massive painting consisting primarily of this color. This main color in *Vir Heroicus Sublimis* is the *first* color in the name of Newman’s series that puns on an Albee play. This color is prominent in Mark Rothko’s (*) Seagram Murals, and an Alexander Calder mobile in Montreal has triangular pieces of metal painted this color. The first silkscreened works made by an artist who worked at “The Factory” displayed objects of this color with labels like “Consommé” and “Clam Chowder.” For 10 points, name this color of Andy Warhol’s first Campbell’s Soup Cans, one of the primary colors with blue and yellow.**

ANSWER: **red** [or **maroon**; accept **black** UNTIL the (+) symbol, then DO NOT ACCEPT OR PROMPT]
<JK Painting and Sculpture>

5. **In a dissent from this case, a justice mentioned the “prohibition of lotteries” as an example of where the law shouldn’t overreach. A precedent that this case ignored was *Holden v. Hardy*. The majority opinion in this case stated that “the limit of the police power has been reached and passed” to argue that there was no public health basis for the law in question in this case; that majority opinion was given by Justice Rufus Peckham. In a later case, this decision was (*) overturned when the constitutionality of minimum wages was upheld in the West Coast Hotel case. Oliver Wendell Holmes claimed that the amendment addressed by this case “does not enact Mr. Herbert Spencer’s Social Statics.” For 10 points, name this case that held that working time limits of bakers were against the 14th Amendment.**

ANSWER: ***Lochner v. New York***
<AN American History>

6. **Francis Rattenbury’s design for a building of this type in Canada was submitted under the pseudonym “A B.C. Architect” and was meant to replace “The Birdcages.” The winner of the 2005 Stirling Prize said he wanted one of these buildings to be like an “amphitheatre, coming out from Arthur’s Seat”; that building of this type features oak-framed windows covered with oak lattices that project out from the building and “trigger panels” that resemble hair dryers. Enric Miralles [“un-REEK mee-RALL-yuss”] was chosen to design one of these buildings in (*) Holyrood despite not being Scottish. One of these buildings in London was designed in the Gothic Revival style by Charles Barry and Augustus Pugin. That building replaced a Christopher Wren-designed one that had burnt down in 1834. For 10 points, name this type of building where the House of Commons meets.**

ANSWER: **parliament** building [or **Parliament** Hill or the Houses of **Parliament**; prompt on less specific answers like **government** building; prompt on **palace**]
<JK Other Arts (Architecture)>

7. **A piece by this composer is traditionally played at the conclusion of Interlochen’s Summer Music Festival; that work opens with two pizzicato C’s and makes heavy use of the C B E motif. Another piece by this composer was edited by Ferruccio Busoni from manuscripts into its “De Profundis” version and uses col legno strings to imitate the (*) clacking of bones. A piano piece by this composer in 3/8 time uses stacked fifths to imitate a character tuning a fiddle and depicts the *Dance in the Village Inn*. That piece by this composer of *Totentanz* is the first of a set of pieces typically grouped together with the *Bagatelle sans tonalité*, the four *Mephisto Waltzes*. This composer is generally considered the inventor of the genre of the “symphonic poem” with his work *Les Préludes*. For 10 points, name this Hungarian composer of 12 *Transcendental Études*.**

ANSWER: Franz **Liszt**
<YFL Music and Opera>

8. A predicted B40 “boron buckyball” molecule has this number of atoms on its smallest faces. The reduction of a Weinreb amide proceeds via a metallocyclic intermediate of this size. The molecule fulvalene consists of two rings of this size connected by a single double bond. When only translational and rotational degrees of freedom are considered, the constant-volume specific heat capacity of a diatomic gas is equal to this multiple of one-half R . (*) Metallocenes are metal complexes with two ligands that are rings with this number of carbons. A central atom surrounded by this many bonds and no lone pairs will adopt trigonal bipyramidal geometry. The simplest alkane with a quaternary carbon has this number of carbon atoms. For 10 points, name this number of carbons in cyclopentane.

ANSWER: **five** [or **5**]

<AR Chemistry>

9. *Description acceptable.* The “tariff” form of this practice was practiced in the Celtic Church, and the only “perfect” motivation for it is the love of God. In a British ritual, people accomplished this process by having someone eat bread and beer next to a corpse. The Council of Trent argued that God instituted this practice when he “breathed on His disciples” and instructed them to receive the Holy Ghost. Suicidal medieval women sometimes committed infanticide so that they could undergo this process before (*) death. The Catholic sacrament around this practice is one of the sacraments of healing along with the Anointing of the Sick. This process can save one from Hell, but not Purgatory. For 10 points, name this step in the Sacrament of Penance in which a priest says, “Ego te absolvo.”

ANSWER: **absolution** [accept word forms like being **absolved**; or being **freed** or **cleared** of one’s **sins**; accept **penance** or **contrition** or **confession** or **repentance**]

<JK Religion>

10. One poem about this creature claims it has “a soul as strong as a mountain river / pouring our praise to the Almighty Giver.” Two noises “too old to end” shame a “shallow and frail town” in a poem partially titled for this creature. This creature is used as a metaphor for when “Men’s spirit will be flesh bound” in a poem in which it provides the “sweetest, sweetest spells.” Those poems are both by Gerard Manley Hopkins. The most famous poem about this animal asks “What (*) objects are the fountains / Of thy happy strain?” before comparing it to a “glow worm golden / in a dell of dew.” In that poem, this bird is told to “teach me half the gladness/that thy brain must know.” For 10 points, name this bird, the addressee of the phrase “Hail to thee, blithe spirit!” in a poem by Percy Bysshe Shelley.

ANSWER: skylark [accept “To a Skylark” or “The Sea and the Skylark” or “The Caged Skylark”]

<OL British Literature>

11. This work sets out the progressively lesser categories of knowledge, thought, belief, and imagination, but does not explain the ratios between them. It compares a person living in a dream to one who believes in beautiful things but not beauty itself, and calls such people lovers of opinion. This work argues that sight is present in our eyes, but is made possible by the Sun to explain how truth and knowledge are facilitated by the (*) Good. It imagines a man who is mocked by his friends for having had his eyesight ruined when he tries to identify shadows; that man had been trapped in a location where the only illumination was a fire, but after leaving was able to see images of the sun and then the sun itself. For 10 points, name this Platonic dialogue that relates the Allegory of the Cave, in which Socrates discusses the construction of a just city.

ANSWER: *The Republic* [or *Politeia*]

<JK Philosophy>

12. In a story by this writer, Petrus's family is given the wrong corpse for his brothers funeral after paying the morgue for it. An essay by this author describes "what happened" to a banned novel and explains how censorship in this author's country works. Paul Bannerman becomes radioactive after receiving treatment for thyroid cancer in a novel by this author of "Six Feet of the Country." The Parisian Bernard Chabrier seduces the (*) daughter of a Communist couple in another novel by this author. This author of *Get a Life* wrote a novel in which Jacobus finds a corpse on Mehring's farm. Maureen runs towards a helicopter at the end of a novel by this author about the life of the Smales family after a race war. For 10 points, name this South African writer of *Burger's Daughter*, *The Conservationist*, and *July's People*.

ANSWER: Nadine **Gordimer**

<OL World Literature>

13. A lack of this molecule leads to Cheadle–Möller–Barlow syndrome in infants. This molecule increases tyrosine hydroxylase mRNA in neurons. A high dose of this molecule induces the release of thromboxane B2 and prostaglandin E2. This compound is used to reduce copper(II) to copper(I) *in situ* when performing the CuAAC reaction on biological substrates. A mutation in the (*) L-gulonolactone oxidase gene prevents humans from synthesizing this compound. In the body, this compound is degraded by oxidation followed by hydrolysis to give diketogulonic acid. This compound acts as an electron-donating cofactor for prolyl hydroxylase, which is required for the synthesis of collagen. For 10 points, name this vitamin that prevents scurvy and is prominent in oranges.

ANSWER: vitamin **C** [accept **ascorbic acid**]

<MW Biology>

14. This man instituted a Committee on Standards in Public Life after Mohamed Al-Fayed confessed to bribing two MPs. The revelation of sex scandals during this man's ministry, such as the death of Stephen Milligan by autoerotic self-asphyxiation, marred his "Back to Basics" campaign. This man signed the Downing Street Declaration with Albert Reynolds, and removed the unpopular Community (*) Charge Tax of his predecessor. This man's government was forced to withdraw the pound sterling from the European Exchange Rate Mechanism on Black Wednesday. After defeating Neil Kinnock's Labour party, this man's government oversaw British involvement in the Gulf War and ratified the Maastricht Treaty. For 10 points, name this Conservative British Prime Minister who succeeded Margaret Thatcher and preceded Tony Blair.

ANSWER: John **Major**

<GP Euro/British History>

15. A project by NASA to grow freshwater algae in photobioreactors in wastewater has an acronym that spells out this Greek letter. This letter names an effect that describes the stretching out and winding of the Sun's magnetic field lines due to its differential rotation. A parameter denoted by this capital letter is equal to the (*) sum of similar parameters for baryonic matter, dark matter, and dark energy. This letter is used to represent the longitude of the ascending node, one of the Keplerian orbital elements. When a value denoted by this letter is less than one, the universe is predicted to expand forever. That parameter is equal to the ratio of the density of the universe to the critical density. For 10 points, name this last letter of the Greek alphabet.

ANSWER: **omega**

<AR Astronomy>

16. After receiving a text reading “help me,” A. J. Benza helped this man uncover information about Michael Jackson and Roger Clemens. In a recording, this man says “Don’t ruin your friendship with me for five minutes” to Ambra Gutierrez. This “Friend of Pecker” collaborated with Hillary Clinton on a documentary about her campaign, which upset (*) Lena Dunham. A memorandum by Lauren O’Connor about this man describes his meetings with business partners in his hotel room. Emily Nestor, Rose McGowan, and Ashley Judd are three of the more than sixty women allegedly targeted by this cofounder of Miramax. For 10 points, name this movie producer accused of sexual assault whose misdeeds partially inspired the #MeToo movement.

ANSWER: Harvey Weinstein

<OL Current Events>

17. The author’s research on this “humanly organized” subject among the South African Venda appears in a John Blacking book whose title question suggests its biological basis. This subject is studied in a field pioneered by Jaap Kunst, whose most famous practitioner tried to correlate types of it with social norms using 37 “style elements” in a 1960s project. Huddie Ledbetter, known as “Lead Belly,” was “discovered” by (*) John and Alan Lomax as part of their effort to study Southern types of this activity. The prefix “ethno-” describes a field that studies this subject in an anthropological context, which Zoltán Kodály [“KO-dye”] practiced in Hungary. Non-Western traditions of this activity include the raga framework in India. For 10 points, name this art form, genres of which include afrobeat and folk.

ANSWER: music [accept musicology or ethnomusicology; accept folk songs or singing] (The “1960s project” is Alan Lomax’s Cantometrics.)

<JB Social Science>

18. A poem by this writer asks “Who makes a child’s death out of grey bread?” and begins by wondering when the “tree of life” is “wintering.” A collection of poems by this man ends by recalling the emotion “when a joyful thing falls.” One of this writer’s poems describes a “withered, wrinkled lifter” from a painting alluded to in the phrase “Sabrisio Saltat: the Saltimbanque’s smile.” This author asked the addressee whether they have (*) “remembered Gaspara Stampa sufficiently” in a collection written while he stayed with Princess Marie von Thurn und Taxis. A collection of ten poems by this writer claims “every angel is terror” and begins “Who, if I cried out, would hear me among the Angelic Orders?” For 10 points, name this poet of the *Duino Elegies*.

ANSWER: Rainer Maria Rilke

<OL European Literature>

19. In the 17th century, more than 70 percent of a group inhabiting this region was decimated after revolting against the yasak tax. The Battle of Chuvash Cape took place in this region during an invasion that expelled its ruler Kuchum. A state in this region had its capital at Qashliq, and the Stroganov family was given a patent to establish a settlement along the Kama River in this region. Yui Mitsue [“meet-soo-eh”] led a Japanese military intervention into this region, and (*) Yukaghirs were an ethnic group in this region that was conquered by Yermak Timofeyevich. The Jewish Autonomous Oblast was established in this region along the Amur River, and this region was the site of a number of gulags. For 10 points, name this region of Northern Asia, which comprises most of Asian Russia.

ANSWER: Siberia [or Asian Russia]

<GP World History>

20. A holder of this title was told he would be able to defeat Eumolpus only if he sacrificed one of his daughters, so he killed his daughter Chthonia, causing her sisters Protogenia and Pandora to commit suicide. That holder of this title was hidden inside a box that Aglaurus and her sisters were instructed not to open, but they did and went insane. The first holder of this position was the half-serpent Cecrops, whose daughters were entrusted with a child born when (*) Hephaestus's semen fell to earth and impregnated Gaia. A blinded Oedipus sought protection from one holder of this title, who also gave sanctuary to Orestes while he was being chased by the Furies. One holder of this title judged that a saltwater spring was less useful than an olive tree in a competition to determine the patronage of his city. For 10 points, name this ruler of the Greek city-state home to the Parthenon.

ANSWER: **King** of **Athens** [prompt on less specific answers like king or ruler of Athens]

<JK Mythology>

21. One holder of this position was married to an English woman named Lalla Sargetta. Thomas Barclay negotiated a treaty of friendship with that holder of this position, making his country the first to recognize the United States. A holder of this position was succeeded by Ahmad al-Mansur after he was killed fighting Sebastian I of Portugal at the Battle of the Three Kings. The Saadi Dynasty once held this position. One holder of this position authorized the (*) Green March in an effort to force Spain to hand over one of its possessions to his country. That holder of this position was a member of the Alaouite dynasty named Hassan II. For 10 points, name this position, currently held by Mohammed VI that rules a certain country with capital at Rabat.

ANSWER: **ruler of Morocco** [accept **Sultan of Morocco** or **King of Morocco**]

<GP World History>

Bonuses:

1. This deity's epithets included "lord of truth," "master of justice," and "the beautiful face." For 10 points each:
[10] Name this Egyptian god of craftsmen, who was often depicted with green skin and a scepter. With his wife Sekhmet and his son Nefertum, he formed the triad of Memphis.

ANSWER: **Ptah**

[10] Ptah was embodied in Apis, which was a sacred one of these animals. Ishtar sent one of these animals to kill Gilgamesh for rejecting her, after which he was turned into the constellation Taurus.

ANSWER: **bull** [prompt on **cow** or **calf**]

[10] This was the ancient Egyptian word for bull. This word was also used to refer to the spiritual double of a person that remained in their body after death.

ANSWER: **ka**

<JK Mythology>

2. This philosopher's rectification of names involves five basic life relationships. For 10 points each:

[10] Name this philosopher whose teachings were compiled by his students in the *Analects*.

ANSWER: **Confucius** [or **Kongzi**; or **Kong Fuzi**]

[10] This philosopher known as the "second sage" was a follower of Confucianism and was a student of Confucius's grandson Zisi ["TSUH-suh"]. He believed that the human tendency towards goodness manifested itself in Four Beginnings.

ANSWER: **Mencius** [or **Mengzi**; or **Meng Tzu**; or **Meng Ke**]

[10] Mencius's discussion of the "Four Beginnings" uses the story of people's reactions when witnessing this sort of accident as an example of innate human goodness.

ANSWER: a child **falling** down a **well** [accept equivalents]

<YFL Philosophy>

3. The "psychological study of a certain young Parisian" read by this novel's protagonist is probably Joris-Karl Huysmans's ["weese-mawns's"] novel *À rebours* ["ah ruh-boo"]. For 10 points each:

[10] Name this novel whose protagonist is sent a decadent "yellow book" by Lord Henry along with a newspaper clipping about the suicide of the actress Sibyl Vane.

ANSWER: *The **Picture of Dorian Gray***

[10] This associate of the publishers of the *Yellow Book* journal described that "yellow book" in *The Picture of Dorian Gray*. This gay author of *The Importance of Being Earnest* was put on trial for "gross indecency."

ANSWER: Oscar **Wilde**

[10] Marius and Flavian rhapsodize over a beautiful "golden book," Apuleius's *The Golden Ass*, in this earlier Victorian novelist's *Marius the Epicurean*. His book *The Renaissance* was a major influence on the aesthetic movement.

ANSWER: Walter **Pater**

<OL British Lit>

4. This style's most popular songs include "Basin Street Blues" and "Muskrat Ramble." For 10 points each:
[10] Name this style of music that usually uses a tuba, a banjo, and a clarinet. King Oliver is known for being integral to the development of this style of music.

ANSWER: **Dixieland** [accept **hot jazz**; accept **traditional jazz**]

[10] Another musician strongly associated with Dixieland and New Orleans jazz is this musician, known for playing with the Hot Five and Hot Seven bands as well as his song "What a Wonderful World."

ANSWER: Louis **Armstrong**

[10] Armstrong recorded a number of albums singing and playing trumpet with this singer known for her song "A-Tisket, A-Tasket" and her scat soloing ability.

ANSWER: Ella Jane **Fitzgerald**

<YFL Other Arts (Jazz)>

5. In an impressive reversal of gender roles, this composer's second wife had multiple affairs and racked up a huge gambling debt before leaving him. For 10 points each:

[10] Name this composer of *Tafelmusik* who was one of the most prolific composers in history. He's not Handel, but his *Water Music* is subtitled for "ebb and flood."

ANSWER: Georg Philipp **Telemann**

[10] Telemann's works include twelve Fantasias for the "transverse" version of this instrument. His godson C. P. E. Bach succeeded him as Kapellmeister of Hamburg after leaving the court of Frederick the Great, who composed over 100 sonatas for this instrument.

ANSWER: transverse **flute**

[10] The transverse flute is a member of the woodwind family that lacks one of these small strips of vibrational material. Woodwinds like the oboe and the English horn have two of these things, while the clarinet has one.

ANSWER: **reed**

<JK Music and Opera>

6. This conflict saw the release of the Twelve Articles, which called for the removal of the Todfall tax. For 10 points each:

[10] Name this revolt led by Thomas Muntzer. The Battles of Frankenhausen took place during this revolt, which was violently crushed by the Swabian League.

ANSWER: German **Peasants' War** of 1525

[10] This man encouraged the nobility to kill the "murderous, thieving hordes of peasants." Three years earlier, this man returned to Wittenberg from Wartburg Castle, where he'd been in hiding after the Diet of Worms.

ANSWER: Martin **Luther**

[10] Participants in various German peasant movements, including the Peasants' War, displayed one of these objects on their flag. The term *sabotage* derives from a type of these objects carved out of pieces of wood by French peasants.

ANSWER: **shoes** [or **Bundschuh**; or equivalents such as **footwear** or **clogs**]

<GP Euro/British History>

7. This operation is only defined in 3 and 7 dimensions. For 10 points each:

[10] Name this vector operation whose output's direction is given by the right hand rule. Its output's magnitude is the area of the parallelogram formed by the two input vectors.

ANSWER: **cross product**

[10] The cross product works identically to the product of these numbers, discarding the real part. These generalizations of complex numbers to four dimensions notably do not possess commutativity.

ANSWER: **quaternions**

[10] Along with Dickson, this mathematician names a method of constructing a sequence of algebras with repeatedly doubled dimensions, like making the quaternions from the complex numbers. He also names the result that the number of labeled trees with n vertices is n to the n -minus-2.

ANSWER: Arthur **Cayley**

<DM Math>

8. This object causes men to exclaim "Nay! 'Tis too much! He plays a joke on us!" For 10 points each:

[10] Name this object. The baker Ragueneau is the first to comment on this object in the play in which it appears, and Christian de Neuvillette repeatedly interrupts a speech by this object's owner with mention of this large object.

ANSWER: **Cyrano de Bergerac**'s **nose** [accept either underlined name; prompt on partial answer]

[10] The author of *Cyrano de Bergerac*, Edmond Rostand, also penned *L'Aiglon*, a play about this man's son. Pierre Bezukhov hopes to kill this man in *War and Peace*, which is set during the wars named for him.

ANSWER: **Napoleon** Bonaparte

[10] This term repeated throughout *Cyrano de Bergerac* literally refers to the white feathers on Cyrano's cap.

Cyrano's last word before he dies is this one, which he claims is "something I'll take unstained out of this world."

ANSWER: **panache**

<OL European Literature>

9. Answer the following about the potato in European history, for 10 points each.

[10] The 1917 "Potato Riots" took place in this country due to the export of potatoes to Britain and Germany for coal. The Germans built an electric fence called the "Wire of Death" along this country's *southern* border during the war.

ANSWER: Kingdom of the **Netherlands** [or **Holland**]

[10] The gardens of this palace were turned into a potato field during the French Revolution. Louis XVI and his family were brought back to Paris and confined in this palace after the Women's March on Versailles.

ANSWER: **Tuileries** ["tweel-REE"] Palace

[10] Sultan Abdulmecid attempted to donate 10,000 pounds to victims of the Irish Potato Famine, but was requested to lessen his donation to prevent it from being higher than that of this woman, the queen of Britain.

ANSWER: Queen **Victoria**

<GP Euro/British History>

10. The key feature of these cells was first noticed by George Gey. For 10 points each:

[10] Name these cells first taken from the cervical cancer of Henrietta Lacks. They are a line of immortal cells that exhibit senescence, since they do not die after a certain number of cell divisions.

ANSWER: **HeLa** cells

[10] HeLa cells have an overactive form of this enzyme, which prevents the repetitive ends of chromosomes from deteriorating, allowing them to bypass the Hayflick limit on cell division.

ANSWER: **telomerase** [do not accept telomeres]

[10] This gene, found on chromosome 5 in humans, works as the protein component with TERC's RNA in telomerase. When this gene is over-expressed, immortalization occurs.

ANSWER: **TERT** [or **hTERT**; or human **telomerase reverse transcriptase**]

<DM Bio>

11. This novel is followed by *Mark, the Match Boy* and *Ben, the Luggage Boy*. For 10 points each:

[10] Name this most famous rags-to-riches story of Horatio Alger. It chronicles a frugal bootblack's rise above his station after saving James Rockwell's drowning son.

ANSWER: **Ragged Dick**, or *Street Life in New York with the Boot Blacks*

[10] Dick compares himself to this character after trying on a new suit, claiming "he'll be changed into a fairy princess." In an Anne Sexton poem, this woman's sisters cut off their heels and toes so they can wear a shoe.

ANSWER: **Cinderella**

[10] This author's novel *The Rise of Silas Lapham* reverses Alger's rags-to-riches narrative with a paint salesman who loses his fortune. This author also wrote *A Hazard of New Fortunes*.

ANSWER: William Dean **Howells**

<OL American Literature>

12. This amino acid is synthesized from citrulline by the action of the enzymes ASS and ASL. For 10 points each:

[10] Name this semi-essential amino acid. It has a 3-carbon side chain with a guanidino functional group.

ANSWER: **arginine**

[10] The guanidino group in arginine contains three atoms of this element bonded to two hydrogens each and a central carbon. This element is also the central atom in ammonia.

ANSWER: **nitrogen** [or **N**]

[10] This compound is synthesized from L-arginine, NADPH, and oxygen by its namesake synthase. This heteronuclear diatomic molecule can act as a neurotransmitter that promotes vasodilation.

ANSWER: **nitric oxide** [or **NO**]

<AR Chemistry>

13. In his writings on the Salon of 1765, Denis Diderot thanked this painter for coming just in time "to refresh my eyes after your colleague Challe mortally wounded them." For 10 points each:

[10] Name this French painter known for the restrained, realistic style of his still lifes such as *The Ray* and his genre paintings such as *The Governess* and *Boy with a Top*.

ANSWER: Jean-Baptiste **Chardin** ["shar-DAN"]

[10] Diderot was critical of this elaborate French style characterized by extravagant ornamentation. Chardin himself was originally trained in this style of Fragonard and Watteau ["vah-TOH"].

ANSWER: **Rococo**

[10] Diderot was particularly critical of this Rococo painter of *The Toilet of Venus*, arguing that his paintings lacked "truth" since they depicted shepherds in the same elaborate styles as his patron Madame de Pompadour.

ANSWER: François **Boucher** ["boo-SHAY"]

<JK Painting and Sculpture>

14. Most of this country's lakes are in its Lakeland Region. For 10 points each:

[10] Name this country that makes up Fennoscandia with Norway and Sweden. Its capital city contains the fortress of Suomenlinna.

ANSWER: Republic of **Finland**

[10] This is the largest lake in Finland, which is also the fifth largest lake in Europe. It is the habitat of a namesake species of ringed seal, one of only three lake seal species in the world.

ANSWER: Lake **Saimaa**

[10] These islands were the subject of a dispute between Finland and Sweden, which was mediated by the League of Nations. These islands are an autonomous region in Sweden at the entrance to the Gulf of Bothnia with capital at Mariehamn.

ANSWER: **Åland** ["OH-lahnd"] Islands

<GP Geography>

15. One system proposed by this politician was nicknamed "Every Man a King." For 10 points each:

[10] Name this Louisiana Democratic politician who developed the "Share Our Wealth" program in opposition to FDR's New Deal. He was shot and killed by Carl Weiss in 1935.

ANSWER: Huey Pierce **Long** Jr.

[10] A Democratic politician from this family also challenged President Franklin Roosevelt in the 1936 Primaries. Another politician from this family was nominated by the southern wing of his party in an election in which the vote was further split by John Ball's Constitutional Union Party.

ANSWER: **Breckinridge** family

[10] Henry S. Breckinridge served as an attorney during this trial. Despite proclaiming his innocence, the German-American Richard Hauptmann was convicted and executed as a result of this trial.

ANSWER: Charles A. **Lindbergh** Jr. **abduction** trial [or equivalent answers that refer to the son of Charles **Lindbergh** being **kidnapped** or **murdered**]

<AN American History>

16. In a dialect sometimes called Livalect or Wordsound, this letter replaces the "c" in "creation" and the "u" in unity. For 10 points each:

[10] Name this letter ubiquitous in a religious movement's dialect, in which it is the first letter in the name of a system that forbids added salt and fish longer than 12 inches.

ANSWER: **I**

[10] I-talk, or Iyarc, is a dialect used by some members of this Jamaican religion, whose members follow the I-tal diet, refer to their god Jah as "I & I," and smoke *ganja*.

ANSWER: **Rastafari** movement [or **Rastafarianism**]

[10] Iyarc replaces the word "me" with "I" because the former is associated with this decadent and evil metaphorical kingdom synonymous with Western society. Rastas contrast this domain with "Zion."

ANSWER: **Babylon**

<JB Religion>

17. This stadium is flanked by an iconic Citgo Sign, and has the initials of a married couple who once owned its team displayed in Morse code on its scoreboard. For 10 points each:

[10] Name this stadium. The retired number 42 is displayed in blue within this stadium, although other numbers like 6, 9, and 45 are displayed in red.

ANSWER: **Fenway Park**

[10] This baseball team plays at Fenway Park. The Yawkeys once owned this baseball team for which Ted Williams, Pedro Martinez, and David Ortiz played.

ANSWER: **Boston Red Sox** [accept either underlined part]

[10] The Red Sox played this team in the 2004 World Series. In 1934, this team was nicknamed the Gashouse Gang, and that roster included brothers Dizzy Dean and Paul Dean.

ANSWER: **St. Louis Cardinals** [accept either underlined part]

<OL Trash>

18. It can be considered as analogous to the HOMO–LUMO energy difference. For 10 points each:

[10] Name this quantity that is zero for a metal. The frequency of an LED is proportional to this quantity.

ANSWER: **band gap**

[10] Band gaps are especially important in these objects, whose conductivity is between that of insulators and conductors. Their conductivity can be tuned by doping.

ANSWER: **semiconductors**

[10] Unlike band gap insulators, these substances cannot conduct electricity due to a high degree of interelectronic repulsion. Hubbard theory can explain their properties.

ANSWER: **Mott** insulators [prompt on insulators]

<DM Physics>

19. The Buland Darwaza gate commemorated the conquest of this region. For 10 points each:

[10] Name this Western Indian state once ruled by a sultanate of the same name that allied with the Mamluks against the Portuguese at the Battle of Diu. Akbar conquered this region for the Mughals by 1583.

ANSWER: **Gujarat**

[10] Gujarat was previously ruled by this Indian sultanate after its conquest in 1304. Sultana Razia was a prominent female ruler of this sultanate's Mamluk dynasty, which was succeeded by the Khilji and later the Lodi dynasty.

ANSWER: **Delhi** Sultanate

[10] Gujarat was the home state of this man, who led a march to collect salt from its coastal town of Dandi as part of his campaign of nonviolent resistance to British rule.

ANSWER: Mahatma **Gandhi** [or Mohandas Karamchand **Gandhi**; prompt on Mahatma or Bapu]

<GP World/Other History>

20. A poet with this attribute, Bob McCorkle, kidnaps the infant daughter of Christopher Chubb in a Peter Carey novel. For 10 points each:

[10] Name this notable feature of a poet who wrote of closing his “inanimate lids” to see the “colourful spires / And painted roofs” in “Dürer: Innsbruck, 1495,” one of the poems of his published in *Angry Penguins* magazine.

ANSWER: he is **not real** [or a **hoax**; accept equivalents]

[10] That poet, Ern Malley, was used to parody modernism by James McAuley and Harold Stewart, authors from this country. *My Life as a Fake*, a novel inspired by the hoax, was written by this country's author Peter Carey.

ANSWER: **Australia**

[10] Malley wrote a “Colloquy with [this poet]” asking why he didn't finish *Hyperion*. This subject of Shelley's “Adonais” also wrote “Ode on a Grecian Urn.”

ANSWER: John **Keats**

<OL World Literature>

21. The brushed variant of these devices uses a mechanical switch called a commutator to reverse the current passing through an armature, thus causing it to rotate. For 10 points each:

[10] Name these devices that are made up of a rotating component called a rotor and a stationary component called a stator. They turn electrical energy into mechanical energy.

ANSWER: **motors**

[10] Unlike both brushed and brushless motors, which use direct current, induction motors use this type of current to generate a rotating magnetic field in the motor's stator, which drives the movement of the rotor.

ANSWER: **alternating** current [or **AC**]

[10] Another motor variant which uses AC power works by reducing the value for this quantity, the magnetic analogue to electrical resistance, in the direction in which a motor needs to turn.

ANSWER: **reluctance** [prompt on magnetic resistance]

<CH Physics>