

2021 ACF Nationals

Packet 9 by the Editors

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Tossups

1. *Description acceptable.* Because it was printed across a foldout page, the original version of this image by Rudolph Zallinger is about three times longer than the best-known version. Ads for TV rental and Guinness were included in a book chapter called “The Iconography of Expectation” that shows numerous versions of this image. That chapter, which describes this image as a “straightjacket” and laments that four of the author’s own books had been printed with this image on their jackets, appears in the book *Wonderful Life* by Steven Jay Gould. This 1965 image from an F. Clark Howell book was prefigured by an 1881 *Punch* cartoon titled “Man Is But A Worm” and the frontispiece of T. H. Huxley’s 1863 book *Man’s Place in Nature*. The leftmost figures in this image are a *Pliopithecus* and a *Proconsul*. For 10 points, identify this illustration from the book *Early Man*, an often-parodied depiction of human evolution.

ANSWER: “The **March of Progress**” [or “The **Road to Homo Sapiens**”]; accept the **human evolution** diagram or graphic; accept descriptions of a series of primates and hominids getting taller as they walk from left to right]

2. A painter who pioneered this country’s modern art scene depicted herself standing in front of a Japanese screen in a Gauguin-inspired self portrait “as a Tahitian.” The collapse of a matrilineal system in this country was allegorized in an 1893 painting of a mother holding a baby and pointing to an unseen man, titled *There Comes Papa*. Before dying at 28, a half-Hungarian artist painted *Three Girls*, one of her depictions of somber, brightly-clad women from this country. *As if to Celebrate, I Discovered a Mountain Blooming with Red Flowers* is one of many works that a sculptor born in this country created by dumping mounds of this country’s traditional pigments on studio floors. Stuart Semple has feuded with that artist born in this country over his exclusive licensing of the material Vantablack. For 10 points, name this home country of Amrita Sher-Gil, Raja Ravi Varma, and Anish Kapoor.

ANSWER: **India** [or **Bhārat** Gaṇarājya]

3. The first emperor of this name sent his two advisors, John the Rhaiktor and John Mystikos, into exile at a monastery. The second emperor of this name was the dedicatee of “De Administrando Imperio,” a book written by his father to aid his rule. The final emperor of this name, originally the duke of Serdica, was arrested for leading an army of Magyar soldiers to invade Constantinople, but pardoned by the empress Eudokia Makrembolitissa (“ma-krem-bo-LEE-tee-sa”), and made her second husband. The historian Michael Psellos sent that emperor a letter mocking him for being blinded, after he was betrayed by the family of Andronikas Doukas. This regnal name, taken first by an emperor of the Lekapenos family, was held by a man who rode into battle with Bryennios on his left wing, but had to be ransomed back after he was captured by Alp Arslan. For 10 points, give this name of an emperor surnamed Diogenes, who was defeated in 1071 CE at the Battle of Manzikert.

ANSWER: **Romanus** [or **Romanos**]

4. A staged “tribal dance” by members of this ethnic group at Mayers Ranch exemplifies “tourist realism” in Edward Bruner and Barbara Kirshenblatt-Gimblett’s essay titled for this group “on the lawn.” Monographs on this ethnic group by Meritz Merker and A. C. Hollis are cited in a dissertation that calls them the most fearsome raiders in the center of the first proposed “culture area” on their continent. Marcel Rutten studies the effect of land privatization on this group based on rote application of Garrett Hardin’s “tragedy of the commons” that also led to their relocation to an area around a volcanic crater. This dominant group in the center of Melville Herskovits’s “cattle complex” has an all-gender practice of using metal hoops to stretch earlobes. Policy changes in the Ngorongoro Conservation Area in 2009 displaced members of this group. For 10 points, name this Nilotic pastoralist group of northern Tanzania and southern Kenya.

ANSWER: **Maasai** [or **Masai**]

5. In a pastoral poem corresponding to this time period, the Protestant shepherd Piers tells the Catholic Palinode a fable about a kid abducted by a fox. Therion, who represents the Earl of Leicester, competes with Espilus to marry a woman named for this time period in a pastoral masque. A woman named for this time period steps on her old, blind husband’s back to climb into a pear tree, where she has sex with her lover Damyan, in the “Merchant’s Tale.” The first “three-men’s” song in Thomas Dekker’s *The Shoemaker’s Holiday* celebrates this time period, which titles a poem that chides a “sweet slug-a-bed” to “get up, get up for shame.” “Rough winds” shake this time period’s “darling buds” in Shakespeare’s Sonnet 18. A Robert Herrick poem addressed to Corinna is set during, for 10 points, what month whose arrival was observed with dances around a pole?

ANSWER: **May** [prompt on **spring**]

6. Junctions between these molecules and building blocks, called BBs, are used in the yoctoreactor technology. They aren’t antibodies, but Hogberg et al. developed the monoclonal stoichiometric, or MOSIC, method of producing these molecules. Cyanoethyl adducts can form in one method of synthesizing these molecules, which requires a tetrazole activator and removes a DMT protecting group in the first step. Cadnano is an open-source software that uses staples and scaffolds to create origami from these molecules. They can be synthesized from phosphoramidates in a common solid-phase method; the product of that method undergoes desalting, HPLC, or PAGE for purification when ordering PCR primers. For 10 points, name this polymer containing phosphodiester bonds between nucleotides.

ANSWER: **nucleic acids** [or **oligonucleotides**; or **oligos**; or **DNA**; or **RNA**; or **deoxyribonucleic acid**; or **ribonucleic acid**; accept **primer**s until “primers” is read]

7. This program attempted to isolate targets using techniques like bad-jacketing. As part of this program, the newspaper *Claridad* was set on fire in order to deny media voices to *independistas* like MPIPR. As a consequence of this program’s attacks, Jean Seberg (“jeen see-berg”) gave premature birth to a baby girl who died two days later, and left her funeral casket open to prove she was white. This program included Operation Hoodwink, which attempted to drive wedges between Mafia bosses and the Communist Party. In 1971, reporter Betty Medsger revealed the existence of this program after classified documents about it were stolen from a field office in Media, Pennsylvania. As part of this program, agents wiretapped Martin Luther King Jr.’s phones and sent him letters urging him to commit suicide. For 10 points, name this FBI program initiated in 1956 to undermine political movements regarded as subversive.

ANSWER: **COINTELPRO** [or the FBI’s **Counterintelligence Program**]

8. One author from this country wrote about an Egyptian king and queen who can't provide a dowry for their fourth daughter, so she dresses as a man and captures a satyr in the forest. In another story from this country, a stupid boy entrusted by his mom with babysitting a chicken accidentally kills it with a rolling pin, then tries to warm its eggs by sitting on them himself. Volumes from this country called either *The Facetious Nights* or *The Pleasant Nights* collect 75 of its stories. Another collection "The Tale of Tales" has a frame story about a princess who can't laugh until she sees an old woman slip in oil, and ends with a prince who wants a bride as white as white cheese and red as blood, so he goes to the Island of Ogresses where he is given three fairy-containing items and told to cut those fruits open at a fountain. For 10 points, name this country home to the author of the *Pentamerone*, which contains the fairy tale "The Love for Three Oranges."

ANSWER: **Italy**

9. In addition to surrealist images like "Ascending to the Cathedral," Hungarian-Mexican photographer Kati Horna is best known for photos in this genre. A George Strock photo in this genre was first published next to a full page editorial justifying its existence. Andy Warhol's first painting based on a photograph was inspired by an H. S. Wong photo in this genre. The photographer of "Reaching Out," Larry Burrows, was accused of accidentally melting the negatives of a set of photographs in this genre. The creator of those photographs, who later worked with Henri Cartier-Bresson to co-found Magnum Photos, was left with only eleven "magnificent" frames in this genre. Pima tribe member Ira Hayes was among the frequently-misidentified subjects of a photo in this genre by Jose Rosenthal. For 10 points, name this genre of Robert Capa's most iconic photos, such as "The Falling Soldier."

ANSWER: **war** photography [or **combat** photography or equivalents; prompt on journalism, or photojournalism, or news or, documentary]

10. Because these things are present in thin metal films at a density of about 10 to the 14th per square meter, their namesake pipe diffusion is a common mode of device failure. These phenomena can be generated in bulk by a mechanism in which two pinned sites result in a bowing out driven by shear stress; that is the Frank-Read source. A quantity central to one model of these phenomena is composed of the elastic strain energy and the misfit energy, and represents the energy needed to move one of these things within the unit cell; that is the Peierls ("PIE-earls")-Nabarro model. Cottrell and Bilby proposed a model for how these phenomena generate deformation twinning in body-centered-cubic geometry. These phenomena correspond to a nonvanishing Burgers vector. They occur in edge and screw variants, both of which result in a slip. For 10 points, identify this type of linear crystal defect in which the atoms of one or more crystal planes are displaced from their normal positions.

ANSWER: **dislocations** [prompt on crystal defects until "defect" is read]

11. This character gives a weird lecture about how blood turns into sperm inside the heart to explain how souls without bodies can still look malnourished. In his first appearance, this character embraces another man's feet, literalizing an *envoi* in which he asks his poem to "follow" its predecessors "at a distance and always adore their traces." An earthquake that signals his completion of five hundred years' penance for prodigality precedes his appearance on the Fifth Terrace. This man claims that he secretly converted to Christianity after reading Virgil's fourth *Eclogue* in Dante's *Purgatorio*, in which he travels through the last three terraces with Dante and Virgil. In the *Inferno*, the characters of Capaneus and Amphiaraus are drawn from an epic by this Latin poet about the war between Eteocles and Polynices. For 10 points, name this Silver Age poet of the *Thebaid*.

ANSWER: **Statius** [or Publius Papinius **Statius**; or **Stazio**]

12. The first section of this book relates its author's friend's dream of visiting a wax museum and finding a chimera labeled "LESSING" with the head of the title "Culture-Philistine." Another section of this work alludes to a folktale about hares having seven skins, and adds that humans have more than "seventy times seven." Its second section opens by observing that humans, burdened by the past, must envy grazing cows that "do not know... yesterday or today." That section of this book divides its subject into "monumental," "antiquarian," and "critical" forms. The essays in this book, which include "David Strauss: The Confessor and Writer," "Schopenhauer as Educator," and "On the Use and Abuse of History for Life," were started shortly after its author published his first book, *The Birth of Tragedy*. For 10 points, name this collection of four essays on unfashionable ideas by Friedrich Nietzsche.

ANSWER: *Untimely Meditations* [or *Unfashionable Observations*; or *Thoughts out of Season*; or *Unzeitgemasse Betrachtungen*]

13. The compression theorem states that there is no largest set that consists of functions with this property and whose boundary also has this property. The Lacombe–Grzegorzczak definition of this property only applies to real-valued functions, and was blasted by Martin Davis in a paper which claimed that all notions of a "hyper-" form of this property are a myth. Given a complexity measure, the Blum speedup theorem states that there will always exist functions with this property that are not optimal with respect to the measure. The first function to have the "total" form of this property that is not primitive recursive was discovered by Wilhelm Ackermann. This property is possessed by functions for which an "effective procedure" exists. The Church–Turing thesis concerns functions that have, for 10 points, what property of being able to be resolved by a machine?

ANSWER: computability [or word forms like computable]

14. When a ruler from this family faced an impossible battle, he ran into a room with a thousand swords so that he could pull a new one up every time one would break, in a coup called the "Eiroku Incident." Another man of this name had a curse put on his family line by his nurse Imamai, who was accused of killing his son and committed suicide; that man was married to Hino Tomiko. A ruler of this family promoted the "Higashiyama culture" of the eastern hills, which popularized *shoin* ("sho-ee") homes with tatami floors; his aesthetic was exemplified by the "wabi-sabi" style of a temple that he couldn't afford to coat in silver. Different members of this family were backed by the "Eastern Army" of Hosokawa Katsumoto and the Red Monk, Yamana Sōzen, in a war that devastated Kyoto. For 10 points, name this clan that ruled during the Ōnin War and had fifteen shoguns during the Muromachi era before being ousted by Oda Nobunaga.

ANSWER: Ashikaga

15. While discussing this object, a character recalls his "Mummykins" finding his father's letters addressed to a Maury Linville in Korea. During a fever, a character dreams that he is discovering this object before the appearance of an angelic woman who isn't wearing underwear and a boy whose face says "Too Late." A character analogizes this object to a group of students volunteering for a treatment used for epilepsy in rats. The Antioi brothers are given this object, which is first encountered by a medical attaché treating Toblerone-induced maxillofacial yeast. This object is sought after by Hugh Steeply and Remy Marathe, who fear its use by the Québécois A.F.R. This work is the last one by a man attempting to cure his son's anhedonia who commits suicide by sticking his head in a microwave. For 10 points, name this fatally addictive final film of James Incandenza that shares its title with the novel it appears in.

ANSWER: "the Entertainment" [or *Infinite Jest*; or the videotape from *Infinite Jest*; or the entertainment cartridge from *Infinite Jest*; or "the samizdat"; accept James Orin Incandenza's final film or equivalents until "Incandenza" is read]

16. In the second movement of this composer's Piano Trio, the trio section opens with a theme consisting of a pickup A, whole note G, half note F, up to half note C, then whole note E; in that trio, the piano plays in 4/2 time against the strings in 3/4 time. The first movement of this composer's Piano Trio is in 8/8 time, organized as 3+2+3, and draws from an abandoned piano concerto. A piece by this composer for flute, clarinet, string quartet, and harp was commissioned by the Érard ("ay-RAR") company. The second movement of this composer's string quartet opens with the whole ensemble playing *pizzicato* and is marked *Assez vif* ("ah-say VEEF"). A virtuosic piece by this composer for violin and piano with a luthéal ("loo-tay-ALL") accessory was commissioned by Jelly d'Arányi. The third movement of a piano suite by this composer was intended to be more difficult than *Islamey*. For 10 points, name this French composer of *Tzigane* ("tsee-GAHN"), *Gaspard de la Nuit*, and *Boléro*.

ANSWER: Maurice **Ravel**

17. Husby et al.'s GWAS ("G-woss") for this trait found a single association between a QTL on RAB11FIP4 and this quantity. Injections of FSH into *Uta stansburiana* increased this quantity in a study by Licht et al. Pettifor's individual optimization hypothesis was tested by experimentally manipulating this quantity over 10 years in a population of *Parus major*. This quantity increases with relative increases of productivity during the spring and summer months, according to Ashmole, who noted its increase with latitude. Lack posited that total fitness is maximized at an intermediate value of this quantity, an argument generalized by George C. Williams to distinguish organic versus biotic adaptation. If this quantity is too high, boobies and several eagle species decrease competition and resource strain via brood reduction. For 10 points, name this quantity, the number of eggs laid at a time in one reproductive event.

ANSWER: **clutch** size [accept **brood** size until "brood" is read; prompt on descriptions like number of children at a time or number of eggs; do not accept or prompt on "fecundity" or "fertility" or "parity"]

18. This poet was described as being more like Victor Hugo than like his idol Paul Verlaine in the essay "The Siren and the Seashell." This poet claimed "I think in French!" after memorizing a Dictionary of Gallicisms. This poet asked "Is it our fate that millions of us will speak in English?" after noting the "question mark" of a bird's neck in his poem "Swans." This poet added five "medallions" praising authors like Leconte de Lisle ("luh-CONT duh LEEL") and Catulle Mendès ("ka-TOOL mon-DESS") in the second edition of a collection that also contains stories like "The Ruby" and "The Bourgeois King." This poet wrote about drinking "droplets of refined French sap" with a "half-Spanish, half-indigenous mouth" in his poem "To Columbus." Leopoldo Lugones and José Martí joined a movement sparked by this poet's 1888 collection, whose title ends with an ellipsis. For 10 points, name this author of *Azul...*, the Nicaraguan pioneer of "modernismo."

ANSWER: Rubén **Darío**

19. This ancient city, home to the vase painter Velthur Ancinies, used a unique "area scoperta" design for its tombs with steps leading to a niched open basin. The most powerful king of this city was allegedly playing dice and shouted "victory!," which his assistants mistakenly interpreted to mean they should slay four ambassadors sent to his court; in revenge, his territory was invaded and he was unhorsed in battle by Aulus Cossus. This city, home to the Grotta Campana tomb perhaps constructed by that king Tolumnius, was built around a sanctuary at Portonaccio with a life-size terracotta statue of Apollo attributed to Vulca. This city lost control of the Maesian Forest after its defeat by Ancus Martius, and later allied with the deposed king Tarquin the Proud to fight against Lucius Junius Brutus. This city was finally sacked and destroyed by Camillus in 396 BC. For 10 points, name this great Etruscan city just north of Rome.

ANSWER: **Veii** [or **Veio**; or the **Veientes**; or **Vieste**; accept **Portonaccio** until "Portonacio" is read]

20. A prominent leader of this movement was the subject of the biopic *Nothing to Lose*, which became his country's second-most successful film ever. To compete with this movement, Jonas Abib founded the similar "New Song" community. A cleric from this movement assaulted a statue of the Virgin Mary on national television in the 1995 "kicking of the saint" incident. A 180-foot-tall replica of the Temple of Solomon is the headquarters of the Universal Church of the Kingdom of God, which belongs to this movement. Noam Chomsky claimed that the "first religious war of the 21st century" was the United States's campaign to promote this movement over Catholicism in Latin America. Edir Macedo ("eh-JEER ma-SAY-doo") and other leaders of this movement in Brazil were instrumental in the election of Jair Bolsonaro. For 10 points, name this Protestant religious movement whose adherents often "speak in tongues."

ANSWER: Brazilian **Pentecostalism** [or Neopentecostalism; or Brazilian **Charismatics**; accept the **Universal Church of the Kingdom of God** or the **Igreja Universal do Reino Deus** until "Universal Church of the Kingdom of God" is read; prompt on **Protestantism**; prompt on **Evangelical Christianity**]

Bonuses

1. Gabrielle de la Puente and Zarina Muhammad share art criticism under a name that parodies this two-word phrase by replacing the first letter of its second word with a “P.” For 10 points each:

[10] Give this two-word phrase that also names an art gallery founded by Jay Jopling. An essay collection by Brian O’Doherty is titled for the “Inside” of it.

ANSWER: “**white cube**”

[10] O’Doherty’s essay credits this artist with inventing the modern exhibition. This Soviet propagandist proposed the creation of “horizontal skyscrapers” and designed the “Cabinet of Abstraction” to display constructivist art.

ANSWER: El **Lissitzky**

[10] Lissitzky innovated gallery spaces while working in this country. Charlotte Klonk has argued that the “white cube” look was standardized by a government in this country that exhibited works by Otto Dix as “degenerate art.”

ANSWER: **Germany** [accept Nazi **Germany**]

2. The memoir *Timebends* reveals that this character’s surname is not a double entendre but a reference to Otto Wernicke’s character in the films of Fritz Lang. For 10 points each:

[10] Name this theater role originated by Lee J. Cobb whose size caused one line to be changed from “shrimp” to “walrus.” Another line states that this character is “a human being, and a terrible thing is happening to him. So attention must be paid.”

ANSWER: **Willy** Loman [prompt on **Loman**]

[10] *Timebends* discusses how the Loman family was inspired by Arthur Miller’s uncle Manny and his sons Abby and Buddy, who had this surname. The protagonist of *Focus*, Miller’s only novel, also has this surname.

ANSWER: **Newman**

[10] Miller also wrote that he chose *Death of a Salesman*’s title in order to juxtapose his clownish protagonist with those of more “austere” books, like this author’s novel *Death Comes for the Archbishop*.

ANSWER: Willa **Cather**

3. These groups, which each have an associated lineage or *silsilah*, create lodges called *khanaqahs* or *zawiyahs* that also serve as hostels for travelers. For 10 points each:

[10] Name these groups in which students, called *muridun*, receive guidance from a *murshid*. In India, prominent examples of these groups include the Qadiriyyah and the Naqshbandiyyah.

ANSWER: **Sufi Orders** [or **schools** of **Sufism**; or **tariqa**]

[10] The Mevlevi order, the most popular Sufi order in the West, is based on the teachings of this famous Sufi poet. This student of Shams of Tabriz authored a long mystical poem called the *Masnavi*.

ANSWER: **Rumi** [or Jalal ad-Din Muhammad **Rumi**]

[10] Akbar the Great was a patron of this Sufi order, to which the musician Amir Khusrau belonged. The Sufi saint who brought this order to India is buried in a famous *dargah* at Ajmer.

ANSWER: **Chishti** Order [or **Chishtiyyah**]

4. One sub-population of these cells expresses the Foxp3 transcription factor and is responsible for tamping down immune responses. For 10 points each:

[10] Name this type of lymphocyte that mature in the thymus. The number of the helper variety of these cells may drop precipitously in HIV infection.

ANSWER: **T** cells

[10] T-cell-dependent antigens trigger the formation of these lymphoid aggregates in lymph nodes, which have a pale center consisting of a light and dark zone and a surrounding mantle zone. High-affinity B cells mature here.

ANSWER: **germinal center** [or **GC**; accept **secondary follicle** or **secondary lymphoid follicle**; prompt on **follicle** or **lymphoid follicle**; do not accept or prompt on “primary follicle” or “primary lymphoid follicle”]

[10] A key part of affinity maturation in B cells is this process, which preferentially occurs in CDRs of the variable region of immunoglobulins. It typically occurs alongside class-switching and after VDJ recombination.

ANSWER: **somatic hypermutation** [or **SHM**; prompt on **mutation** or **hypermutation**]

5. The theorizer of “peak oil,” King Hubbert, wrote the official “Study Course” for this movement, whose “monad” logo was a ripoff of the yin-yang symbol. For 10 points each:

[10] Name this 1930s movement whose members enlisted teenagers in the “Farad Section,” painted their cars a namesake shade of grey, and sometimes changed their names to numbers. It was founded by self-proclaimed engineer Howard Scott.

ANSWER: **Technocracy**, Inc. [or the **technocracy** movement]

[10] This author used the technocracy movement’s idea of “production for use” in his platform, called End Poverty in California. He claimed to have accidentally “hit [the public] in the stomach” with his novel *The Jungle*.

ANSWER: Upton **Sinclair**

[10] Mike Davis listed Technocracy, Inc. among the “temporary sensations” embraced by middle-class voters of the ’30s, along with the old-age pension plan that was proposed by and named for this Long Beach-based physician.

ANSWER: Francis **Townsend**

6. Conceptual artist Julijonas Urbonas designed a “euthanasia” one of these devices, which would kill anyone who used it. For 10 points each:

[10] Name these devices that grew out of the so-called “Russian Mountains” that often graced gardens. Joseph Oller, the founder of the Moulin Rouge, built one of these devices called the “Russian Mountains of Belleville” in 1887.

ANSWER: roller **coasters** [or **coasters**]

[10] Roller coasters are often designed to limit this quantity, which makes people nauseous at large values. The time integral of jounce yields this quantity, the rate of change of acceleration.

ANSWER: **jerk** [or **jolt**]

[10] One of the most popular roller coaster elements are half-twist loops named after this man, a World War I fighter pilot who frequently used a similar half-twist maneuver in aerial combat.

ANSWER: Max **Immelmann** [accept **Immelmann Loops**]

7. Answer the following about the intersection of philosophy and competitive trivia, for 10 points each.

[10] After his role in the 1950s quiz show scandals, Charles Van Doren co-authored *How to Read a Book* with Mortimer Adler. Adler also founded this program, whose 8th and 9th volumes feature Aristotle's works.

ANSWER: **Great Books** of the *Western World*

[10] Joel Kupperman, who rose to fame during World War II as a wunderkind on the *Quiz Kids* program, advocated "character ethics" as distinct from this approach to ethics associated with G. E. M. Anscombe and Aristotle.

ANSWER: **virtue** ethics

[10] In an op-ed about Jeopardy titled "What Did Watson the Computer Do?", Stanley Fish claimed that Watson doesn't begin with an instance of this ambiguous Wittgensteinian concept. *Philosophical Investigations* claims that "to imagine a language means to imagine" one of these things.

ANSWER: **forms** of **life** [or **lebensform**; prompt on **forms**]

8. This scholar vocally doubted the authenticity of the Adélaïde Concerto, which was supposedly composed by Mozart. For 10 points each:

[10] Name this German-American musicologist who issued a revised version of the Köchel catalogue and wrote the biography *Mozart: His Character, His Work*.

ANSWER: Alfred **Einstein**

[10] A composer with this last name fraudulently attributed his Adélaïde Concerto to Mozart. His brother Henri similarly claimed that C. P. E. Bach wrote the viola concerto he composed.

ANSWER: **Casadesus** ("ka-sahd-SOO") [or Marius **Casadesus**; or Henri **Casadesus**]

[10] Although this composer supposedly wrote a quartet for flute, viola, guitar, and cello, he actually added the cello part to an existing *Nocturne* trio by Wenzel Matiegka. Many composers have used this composer's sketches to complete his *Unfinished Symphony*.

ANSWER: Franz **Schubert**

9. This group hung out at London's first nightclub, the Cave of the Golden Calf, and pledged to be "unashamed of decadence and gambling." For 10 points each:

[10] Name this group of English aristocrats that formed around the socialite and actress Lady Diana Manners and the son of Prime Minister H. H. Asquith, Raymond Asquith.

ANSWER: the **Coterie** [or the "Corrupt **Coterie**"]

[10] Diana Manners married Duff Cooper, who served Winston Churchill as minister of information. Cooper rose to prominence in a 1940 debate named for this country, where Vidkun Quisling later headed a Nazi government.

ANSWER: **Norway**

[10] The Coterie included this female activist who ran the Hours Press and slept with everyone from Aldous Huxley to Indian socialist V. K. Krishna Menon. Her father ran a namesake line of ocean liners that competed with White Star and Inman, and which included the *Lusitania*.

ANSWER: Nancy **Cunard**

10. Answer the following about how the phenomenon of “analysis paralysis” relates to software engineering, for 10 points each.

[10] Over-scoping out requirements of a project is one reason why this model was largely abandoned in favor of agile development. In this model, progress “cascades” from one step of the project to another.

ANSWER: **waterfall** model

[10] Analysis paralysis is considered to be an “anti-” one of these concepts. The good “design” kinds of these concepts include “adapter” and “singleton” and are “reusable elements” in a software engineer’s toolset.

ANSWER: design **patterns** [or anti-**patterns**]

[10] Analysis paralysis is often compared to a sentiment attributed to Knuth that this process is the “root of all evil.” That statement about this practice was prefaced with the dictum that small efficiencies should be ignored 97% of the time.

ANSWER: **premature optimization**

11. Answer the following about world literature named after Beatles songs, for 10 points each.

[10] An instrumental cover of the title song sparks memories of Naoko and Midori in this bestselling novel about the sentimental education of Toru Watanabe.

ANSWER: **Norwegian Wood**

[10] This Canadian author recounted the lonely life of Liz Dunn in his novel *Eleanor Rigby*. In his subsequent novel, video game programmer Ethan Jarlewski and his coworkers write love letters to Ronald McDonald after a computer glitch puts everyone with a “J” surname in the same cubicle.

ANSWER: Douglas **Coupland**

[10] Nicole Dennis-Benn, who made headlines as the first Jamaican woman to have a same-sex wedding, later received acclaim for this 2016 novel in which lesbian sex worker Margot raises money from tourists to send her little sister Thandi to school.

ANSWER: **Here Comes the Sun**

12. In 1777, this man purchased the ship-of-the-line *Hippopotame* (“ee-po-po-TOM”) and renamed her *Fier Rodrigue* (“fyair rod-REEG”), used as a floating hospital during the siege of Savannah. For 10 points each:

[10] Name this watchmaker who used Luis de Unzaga to set up a fake business called Roderigue Hortalez and Company, designed to funnel supplies to colonists during the American Revolution.

ANSWER: Pierre-Augustin Caron de **Beaumarchais**

[10] The support of Beaumarchais is cited as the reason why the Americans triumphed at Saratoga over this fellow playwright and British general, known as “Gentleman Johnny.”

ANSWER: John **Burgoyne**

[10] In Paris, Beaumarchais and Silas Deane encouraged this Scottish mercenary’s plan to sabotage the Royal Navy dockyards in Portsmouth and Bristol by blowing them up, using flammable liquids obtained from his profession.

ANSWER: **John the Painter** [or James **Aitken** or Johnny **Aitken**; prompt on **John** or **James**]

13. This poem consists of two tercets, the first of which describes a creature that “clasps the crag with crooked hands” and stands “ringed with the azured world.” For 10 points each:

[10] Name this brief poem by Alfred, Lord Tennyson that concludes, “He watches from his mountain walls / and like a thunderbolt he falls.”

ANSWER: “The **Eagle**”

[10] Eleven tercets make up this writer’s poem about the sinking of the *Titanic*, “The Convergence of the Twain.” This writer’s other poems include “The Darkling Thrush” and “Hap.”

ANSWER: Thomas **Hardy**

[10] In this Oscar Wilde poem in tercets, the speaker hears Strauss’s “Treues Liebes Herz” (“TROY-us LEE-buss HAIRTS”) coming from the title location, where the speaker says “The dead are dancing with the dead / the dust is whirling with the dust.”

ANSWER: “The **Harlot’s House**”

14. This term was coined by UK Labour Party activist James Doran. For 10 points each:

[10] Identify this term, coined in reference to a once-dominant political party, that was adopted in the 2010s to describe the Europe-wide phenomenon of traditionally powerful center-left parties becoming marginalized.

ANSWER: **Pasokification**

[10] In Europe, political and sociological discourse on Pasokification is inextricable from discussions of this political tendency, the subject of a “very short introduction” by Dutch theorist Cas Mudde. Lawrence Goodwyn’s book on this tendency’s “moment” is a key text in the study of a distinct but related US movement with this name.

ANSWER: **populism** [or **populists**; accept *The Populist Moment*]

[10] This French economist commented on the fall of Europe’s social-democratic “Brahmin left” in his books *Capital and Ideology* and *Capital in the Twenty-First Century*.

ANSWER: Thomas **Piketty** (“toh-MAH pee-keh-TEE”)

15. In his final speech before suicide, this man declared “go forward knowing that, sooner rather than later, the great avenues will open again where free men will walk to build a better society.” For 10 points each:

[10] Name this socialist who was overthrown as leader of Chile by a US-backed coup in favor of Augusto Pinochet.

ANSWER: Salvador **Allende**

[10] Prior to the successful coup, a 1973 coup known by this Spanish name failed to overthrow Allende. Army Commander Carlos Prats rebuffed a column of 16 armored vehicles under Roberto Souper surrounding the presidential palace at La Moneda to quash this coup.

ANSWER: El **Tanquetazo** [or El **Tancazo**]

[10] This poet and musician, who had written Allende’s campaign song “Venceremos” with Ittura, was among the first to be tortured and murdered at Chile’s Estadio Nacional by the Pinochet regime.

ANSWER: Víctor **Jara** [or Victor Lidia Jara **Martinez**]

16. In his book *Black Song*, John Lovell Jr. noted that unlike coded songs such as “Steal Away to Jesus,” “only a very obtuse listener could miss the point” of this spiritual. For 10 points each:

[10] Name this spiritual whose slow chorus opens with a two-note short–long rhythm on the tonic, which then repeats a fourth above. This song was popularized by Paul Robeson, who felt that black and Jewish people had special kinship.

ANSWER: “**Go Down, Moses**”

[10] Potentially coded elements in this spiritual include a “band of angels” coming from beyond the Jordan River. This spiritual features the refrain, “coming for to carry me home.”

ANSWER: “**Swing Low, Sweet Chariot**”

[10] Hearing the song “Steal Away” on the radio inspired the composer of this piece to include five black spirituals at key moments. The song “Deep River” marks the conclusion of this oratorio’s third act.

ANSWER: *A **Child of Our Time*** (By Michael Tippett.)

17. General statements of this type set the time derivative of a quantity of interest plus the divergence of a current equal to a source density. For 10 points each:

[10] Identify this type of statement, of which the continuity equation from continuum mechanics is one special form.

ANSWER: **conservation** law or [or word forms like **conserved**]

[10] This theorem states that every symmetry of the system, such as gauge invariance, corresponds to a conservation law; in this case, conservation of electric charge.

ANSWER: **Noether**’s theorem

[10] Although most processes conserve baryon number, it can be violated by this type of unstable solution in electroweak theory. This solution represents a saddle point in the energy configuration and can be thought of as the height of a potential barrier between two vacuum states.

ANSWER: **sphaleron**

18. The Greeks spared this man’s house, adorned with a panther skin, during the Trojan War because he favored peace and allowed them to open the gates. For 10 points each:

[10] Name this wise old counselor to King Priam, who according to some accounts escaped Troy to become the progenitor of many European peoples like the Scandinavians, Goths, and Italian cities like Padua.

ANSWER: **Antenor**

[10] This prince, who had earlier picked Aphrodite as judge in a beauty contest, refused Antenor’s pleas to return Helen to Menelaus.

ANSWER: **Paris**

[10] The Greeks banded together to assist Menelaus because they were bound by the sacred oath named for this Spartan king, the father of Clytemnestra.

ANSWER: **Tyndareus**

19. At a party held by the Swanns in this novel, the Narrator first meets the famous writer Bergotte, based on Anatole France. For 10 points each:

[10] Name this second volume of a larger novel. In this volume, the adolescent Narrator, after recovering from his infatuation with Gilberte, encounters Albertine Simonet among a group of girls on a beach at Balbec.

ANSWER: *Within a Budding Grove* [or *In the Shadow of Young Girls in Flower*; or *A L'Ombre des Jeunes Filles en Fleurs*]

[10] The writer Bergotte, the painter Elstir, and the composer Vinteuil (“van-TUH-ee”) are among the artists who appear in this author’s seven-volume masterpiece *In Search of Lost Time*, whose second volume is *Within a Budding Grove*.

ANSWER: Marcel **Proust** [or Valentin Louis Georges Eugene Marcel **Proust**]

[10] In *The Captive*, Bergotte dies from an illness in front of this painting. Just before dying, Bergotte realizes that he should have written in a style befitting a “patch of yellow wall” from this painting.

ANSWER: *View of Delft* [or *Gezicht op Delft*] (by Jan Vermeer)

20. The peak current found at the top of a “duck-shaped” curve in this technique is proportional to the square root of the scan rate according to the Randles–Sevcik equation. For 10 points each:

[10] Name this technique. Unlike the linear sweep in a similar technique, the namesake quantity is ramped up and down in the forward and reverse scans of this technique.

ANSWER: **cyclic voltammetry** [prompt on voltammetry]

[10] Cyclic voltammetry experiments measure the current using three of these devices. A platinum wire is part of the “standard hydrogen” type of these electrochemical cell components.

ANSWER: **electrodes**

[10] The oxidation of this compound is commonly used in cyclic voltammetry experiments as an internal standard. The standard reduction potential for its single electron reduction is 0.4 volts.

ANSWER: **ferrocene** [or **Fc**]