



ACADEMIC  
COMPETITION  
FEDERATION

ACF NATIONALS 2018

ROUND 12  
PLAYOFFS 4

packet by  
THE EDITORS (4)

## Tossups

1. Euphrasia defends these things in a dialogue that concludes with the supposedly Egyptian tale of Queen Charoba; that early history of these things is a “progress” of them by Clara Reeve. An attack on the “swarms” of these “worthless” things appears in James Fordyce’s *Sermons to Young Women*, which a character who professes to avoid these things reads aloud until he is interrupted with gossip about soldiers. A chapter praising these things imagines a young lady saying “with affected indifference,” “Oh, it is only [one of these things],” which the narrator rephrases as, “It is . . . in short, only some work in which the greatest powers of the mind are displayed.” A defense of these things occupies chapter five of a book, in which *Orphan of the Rhine*, *Necromancer*, and other “horrid” works of this form are introduced to the protagonist by Isabella Thorpe. For 10 points, name this literary form that is shared by works Catherine Morland reads and by Jane Austen’s own *Northanger Abbey* and *Pride and Prejudice*.

ANSWER: novels [or romances; accept specific genres such as romance novels or Gothic novels; accept *The Progress of Romance*; prompt on “Gothic fiction”; prompt on “books” or “fiction”]

2. This painting marked the high point of a genre invented in a 1599 work by Pieter Pietersz (“peter peters”) that depicts the predecessors of this painting’s subjects. In 1801, the director of the museum that now holds this painting refused to acquire it because, in his words, it depicted its subjects “doing absolutely nothing.” The centermost and rearmost man in this painting can be identified as a servant because he is wearing a close-fitting skullcap. The men in this painting may be seated on a dais (DAY-iss), as indicated by the slightly upward view toward a table covered with a red-and-gold rug. This late group portrait was commissioned as a favor to its bankrupt artist, who was also working on public commission to paint *The Conspiracy of Claudius Civilis*. The genre of “regents group portraits” inspired, for 10 points, what Rembrandt painting that adorns Dutch Masters cigar boxes and shows six men gathered around a book of cloth swatches?

ANSWER: Syndics of the Drapers’ Guild [or *The Sampling Officials of the Amsterdam Drapers’ Guild*; or *De Staalmeesters*; accept *The Syndics* or other answers mentioning Syndics or Sampling Officials or Wardens and (Amsterdam) Drapers’ Guild or (Amsterdam) Clothmakers’ Guild]

3. This phenomenon, which is not adsorption, is modeled at the mesoscale by the step-flow mechanism of Burton, Cabrera, and Frank. The proportion of a tracer that appears in a substance undergoing this process is governed by the Fajans-Paneth-Hahn law. The Camp number equals the product of mean shear rate and the time spent “aging” during this process, which provides an alternative name for age hardening. Ions high on the Hofmeister series are better at causing proteins to undergo this process. Kosmotropic agents, such as ammonium sulfate, are used in protein purification schemes to induce this process, a technique known as “salting out.” A method of purification named for this process relies on dissolving a compound and its impurities in a hot solvent, allowing it to cool slowly, and then filtering the product. For 10 points, name this process that occurs when a seed is added to a supersaturated solution.

ANSWER: precipitation [accept recrystallization; accept salting out before “salting”]

4. In traditional Taoist practice, talismans made of this material known as *fu* are often swallowed as curatives. Empress Shotoku commissioned one million three-story wooden pagodas to house the first items made from this material in Japan, which were small charms known as *dharani* in the recently imported Buddhist tradition. In Korea, monks made items known as *jihwa* from a traditional form of this material known as *hanji*. A Buddhist celebration known as Yi Peng, which involves “making merit” using thousands of *khom loi* made primarily of this material, takes place annually in Chiang Mai, Thailand. During the Qingming (ching-ming) Festival and the Ghost Festival, ancestors are venerated with the burning of “joss,” a type of this material. The celebrations for Chinese New Year end in a festival of “lanterns” made of, for 10 points, what material, whose invention by Cai Lun (tsai loon) in China aided the spread of Buddhist texts?

ANSWER: paper [or zhi; or kami; accept bamboo paper or rice paper or joss paper or paper lanterns or papier-mache]

5. During a cholera outbreak in 1832, a woman with this first name earned the nickname “the Saint of the Slums” for operating Britain’s first public laundry in Liverpool. A woman with this first name effectively became England’s first pin-up girl after she commissioned Joshua Reynolds to paint her portrait and probably staged an incident in which she revealingly fell off her horse at St. James’s Park in 1759. A scandal involving an Eltham woman commonly referred to by this first name came to light after her rich Aunt Ben died and her estranged husband sued for divorce. This nickname was derisively used to denote a politician’s lover who was divorced by a County Clare Nationalist MP in 1889; the resulting scandal involving a woman of this nickname caused the downfall of that politician during his negotiations with William Gladstone over Home Rule. For 10 points, give this first name of a woman surnamed O’Shea who had a long affair with Irish leader Charles Stewart Parnell.

ANSWER: Kitty [or Catherine; or Katherine; or Katie; accept Kitty or Catherine Wilkinson or Kitty Fisher or Kitty O’Shea (or Wood or Parnell) or Katherine O’Shea (or Wood or Parnell) or Katie O’Shea (or Wood or Parnell)]

6. This poem’s speaker says to Life, “I would hear Death speak,” to which Life responds by raising her voice a little higher and saying, “You hear him now.” This poem was published with the poet’s drawings interspersed between its lines, including the recurring image of an open palm with a flower tendril running through it. As part of its closing study of Christ, this poem asks, “Was the love of Judas’s mother for her son less than the love of Mary for Jesus?” In this poem, people climb the “Blessed Mountain” and gain the desire “to descend and be with those who dwell in the deepest valley.” The speaker of this poem states that he “heard the Sphinx” but “did not understand” after declaring himself “the infinite sea.” The Beatles’ song “Julia” popularized this poem’s statement that “half of what I say is meaningless; but I say it so that the other half may reach you.” The claim that “I am forever walking upon these shores, betwixt” the two title substances opens, for 10 points, what long, aphorism-filled poem by Khalil Gibran?

ANSWER: “Sand and Foam”

7. This man introduced the technique of linearizing quadratic transformations applicable to baric algebras. This man discussed how he and H. W. Davies ate tremendous amounts of baking soda to attempt to make themselves too alkaline in an essay about being his own test subject titled *On Being One’s Own Rabbit*. This scientist observed that insects do not need bloodstreams due to their size, while larger organisms need more complex oxygen transport mechanisms, in *On Being the Right Size*. Shortly after Alexander Oparin did, this scientist proposed that the basic biomolecules on primitive Earth formed a “soup” that produced the first life. This man predicted that if only one sex of a hybrid is sterile, it is more likely the heterogametic sex. This scientist’s father discovered an effect similar to the Bohr effect in which hemoglobin’s affinity for carbon dioxide decreases when oxygenated. For 10 points, what geneticist and evolutionary scientist developed a steady-state approximation of enzyme kinetics with G. E. Briggs?

ANSWER: J. B. S. Haldane [or J. B. Haldane; or John Burdon Sanderson Haldane; do not accept or prompt on “John Scott Haldane”]

8. Journalist Jo Spivey got her first break covering a protest in this city that was promoted in the press by the store owner Ralph Johns. African Americans in this city wrote in Claude Barnes’s name for the office of school president, leading to protests that ended segregation in its James B. Dudley High School. A protest in this city, which ended on the decision of Curly Harris, is profiled in the documentary *February One*. Five people died in a 1979 clash between the Communist Workers’ Party and the KKK in this city during a “Death to the Klan” march. Ezell Blair led a group of students from this city’s agricultural and technical college, known as the “A&T four,” in a protest that galvanized the formation of the SNCC (“snick”) and precipitated the desegregation of Woolworth’s stores throughout the South. A 1960 sit-in began when four African Americans entered a whites-only lunch counter in, for 10 points, what city in central North Carolina?

ANSWER: Greensboro, North Carolina

9. After eating a steak prepared over a campfire in the Adirondacks, this man decried American culinary “savages” and blamed the U.S. for his developing “colitis.” This man claimed that one of his two goals in visiting America was “to catch sight of a wild porcupine,” thus coining the phrase “finding one’s porcupine.” The day before setting sail to the U.S. to speak at Clark University, this man notoriously fainted while questioning a companion’s fascination with peat-bog mummies. This man supposedly said, “If they only knew what we were bringing them,” while sailing into New York Harbor on a trip that led him to conclude that America was a “gigantic mistake.” This man’s American nephew, who made Woodrow Wilson’s heroic reputation in Europe after World War I, coined the term “public relations” and promoted this man’s work in the U.S. The uncle of advertising pioneer Edward Bernays was, for 10 points, what man who made a 1909 trip to America with his protégé, Carl Jung?

ANSWER: Sigmund Freud [or Sigismund Schlomo Freud]

10. The psychologist Stanley Smith Stevens categorized these entities into the four “levels” of “nominal,” “ordinal,” “interval,” and “ratio.” Reuben Baron and David Kenny introduced the division of these entities into “moderators” and “mediators.” A type of these entities that ideally have a “strong first stage” and satisfy the “exclusion restriction” are used in conjunction with a separate pair of them and are called “instruments.” Longitudinal studies are typically “person-oriented” or oriented toward these entities. The term “interaction” refers to multiplying two of these entities together to identify the separate and combined causal impact of each. The process of strictly setting out how these entities will be defined and measured is known as “operationalizing” them. Values called “attributes” are taken on by, for 10 points, what entities that, in research, may be “dependent” or “independent”?

ANSWER: **variables** [accept moderator **variables** or mediator **variables** or instrumental **variables** or dependent **variables** or independent **variables**]

11. This man, who was married to Countess Franziska Romana Strassoldo-Grafenberg for 56 years, survived nine separate incidents of his horse being shot from under him in battle. This man, who was known to his troops as “Vater,” unsuccessfully tried to retire to Olmütz fortress in the modern-day Czech Republic. He introduced peacetime drilling and preparation into his country’s military before he was finally replaced at age 90 by the incompetent Franz von Gyulai. During a siege of Venice, this man’s troops used balloons to bombard the city from the air. This field marshal disobeyed orders by engaging rebels, thus winning the Battle of Custoza against Piedmontese troops. He was the only non-Habsburg by blood to be made a Habsburg viceroy, a title he earned in recognition of his service in the First War of Italian Independence in the late 1840s. For 10 points, name this Austrian military commander, the namesake of a patriotic Austrian march by Johann Strauss I.

ANSWER: Josef **Radetzky** [or Johann Joseph Wenzel Anton Franz Karl, Graf **Radetzky** von Radetz]

12. The most frequently excerpted aria from this opera begins with the harp playing a series of chords in 3/8 time at *largo* tempo. Act 2 of this opera opens with gossip between the Gamekeeper and Kitchen Boy, or Turnspit, who suspect witchcraft is afoot. Another opera with the same name as this one is best known for its “Miller’s aria” and “Miller’s mad scene,” which have become staples of the Russian bass repertoire. It is not about Don Juan, but Alexander Dargomyzhsky [dar-go-mizh-skee] composed an opera of this name based on an unfinished verse play by Pushkin. The libretto for the more popular opera of this name was written by Jaroslav Kvapil, and the title character of that opera receives a potion from the witch Ježibaba [YEH-zhee-ba-ba] which turns her into a human at the expense of losing her voice. Previously, that character prays that her love will reach the Prince in the “Song to the Moon.” For 10 points, name this opera by Antonín Dvořák about a water nymph.

ANSWER: **Rusalka**

13. At the end of a short story, a man whose job involves installing this material places the frozen body of a missing child whose neck he had snapped years earlier into the arms of the child’s Pakistani mother, the “doctor’s wife.” That horrifying story titled for a man who works with this material is the most anthologized story of Southern Gothic writer William Gay. In another short story, some of this stuff is described in a sentence noting how “the bloated curves and flourishes—a kind of ‘debased Romanesque’ with delirium tremens—go waddling up and down in isolated columns of fatuity.” After a week of fog, this material exudes a smell that “creeps all over the house” in that story, which ends with the protagonist creeping over the body of her fainted husband after ripping this material to free the figure trapped behind its pattern. For 10 points, a woman confined to a room for a rest cure is surrounded by what material in a Charlotte Perkins Gilman story?

ANSWER: **wallpaper** [accept “The **Yellow Wallpaper**” or “The **Paperhanger**”]

14. A metaphor about this entity that was introduced by Henry George was used to title a 1966 book by economist Barbara Ward. A book about the “first decade” of attempts to model this entity titled *Groping in the Dark* was written by Donella Meadows; Donella’s husband, Dennis Meadows, led a team of 16 researchers that made a computer model, called “3,” of this entity that was based on the “2” model produced by Jay Forrester. That “3” model, which attempted to account for every system within this entity, was the basis of the Club of Rome’s 1972 report *The Limits to Growth*. Buckminster Fuller introduced the concept of “Great Pits” in a 1968 book purporting to be this entity’s “operating manual.” This entity was the subject of Lynn Margulis and James Lovelock’s theory holding that it is synergistic and self-regulating. The Gaia hypothesis concerns, for 10 points, what entity that futurists and systems theorists have compared to a “spaceship”?

ANSWER: **Earth** [accept answers such as the **world** or **this planet**; accept Spaceship **Earth**; accept **biosphere** or **ecosphere**; accept **Gaia** before “Gaia”]

15. David Schmeidler proposed the “nucleolus” to address situations in which this set is empty. Herbert Scarf wrote an article in 1967 that used linear programming to demonstrate an algorithm for finding this set. Olga Bondareva demonstrated that this set is non-empty if and only if the game is balanced. This set was first described by Donald Gillies and was elaborated on by Lloyd Shapley and Martin Shubik, who proposed a strong-epsilon version of it. The Edgeworth conjecture suggested that a competitive market with a large number of agents will produce exactly the allocations in this set. In a zero-sum game, this set is always empty. When a solution to a cooperative game is located in this set, neither individual players nor smaller coalitions have any incentive to unilaterally deviate from the grand coalition. For 10 points, name this feature of a game that is the set of all undominated imputations.

ANSWER: the core

16. *Two answers required.* The connection between these two organizations has been explored by the historian Mark Bevir, who traces the founding of the second of them to the first organization’s annual meeting in 1884, at which the nascent second organization held a “meeting across the road” so as not to break assurances made to colonial authorities by Henry Steel Olcott. The only person to be president of both of these organizations adopted a boy named Jiddu Krishnamurti and raised him to be a “World Teacher.” The establishment of the later of these two organizations was hindered by an ongoing feud between one of its founders, Allan Octavian Hume, and the founder of the other organization, who wrote *Isis Unveiled*. Annie Besant served as president of both of, for 10 points, what two organizations, one of which was a mystical group founded by Helena Blavatsky and the other of which was the first nationalist political party in India?

ANSWER: Congress Party [or Indian National Congress; or INC] and Theosophical Society [accept theosophy or theosophists] [accept answers in either order]

17. David Aronstein and C. R. Stroud derived a general series solution for this system for use in wave packet studies. Solutions to this system can be found graphically by plotting a decay constant over the wavenumber and finding the points where that curve intersects either of two trigonometric functions of the wavenumber times a length scale. The inverse transmission coefficient for this system is given by one plus a sine squared term, and when the argument of that sine squared term is an integer multiple of pi the transmission equals one. Finding the antisymmetric solutions to this system requires solving an equation of the form “y equals x times the cotangent of x.” A periodic array of these systems is used to approximate the band structure of solids in the Kronig–Penney model. This system always allows at least one bound state, and it allows particles to tunnel out when the barriers have a limited thickness. For 10 points, name this system from quantum mechanics consisting of a region of lower potential surrounded by walls of higher, but limited, potential.

ANSWER: finite square well [or finite quantum well or finite potential well or finite rectangular well; prompt on “well” or any of the prior answers if they don’t say “finite”; do not accept “particle in a box,” which is the infinite square well]

18. A member of this tradition is the first example of a “particularist” concerned with “Question B” in Roderick Chisholm’s “Problem of the Criterion,” which quotes that member’s comparison of another philosopher to a traveler who follows a road to a coal pit. A member of a school of thought of this name originated the anti-reductionist position in the epistemology of testimony by arguing that the principle of veracity makes trust in assertions the correct default. An essay titled for this concept presents a list of such truisms as “there exists at present a living human body, which is my body.” A thinker from a school named for this concept argued for a human faculty that reveals “first principles” in *Essays on the Intellectual Powers of Man*. The “here is one hand” argument in G. E. Moore’s “Proof of an External World” built on his essay presenting a “defense” of this concept. Thomas Reid led an anti-skeptic Scottish school named after, for 10 points, what set of intuitive judgements that titles a Thomas Paine pamphlet?

ANSWER: common sense realism [accept “A Defence of Common Sense”; prompt on “realism” or “Scottish school”]

19. The decline of this author’s social class is compared to the way that his characters reject the world in which they are compelled to live in Lucien Goldmann’s study of this author, *The Hidden God*. The essay “New Criticism or New Fraud?” attacked a nontraditional book about this author, prompting a response in *Criticism and Truth*. The furor surrounding Raymond Picard’s polemic against a book “on” this author by Roland Barthes is credited with legitimizing theory as a discipline. Theophile Gautier claimed that this author’s finest line was the untranslatable phrase “the daughter of Minos and Pasiphaë.” This author was commissioned to write religious pieces for a girl’s boarding school by Madame de Maintenon, resulting in his work *Esther*. Ted Hughes spent his last months translating the rhymed alexandrine verse of this author’s play in which the appearance of a half-bull, half-snake monster causes Hippolyte to be dragged to his death. For 10 points, name this French tragedian who wrote *Phedre*.

ANSWER: Jean Racine [accept On Racine]

20. The second movement of this piece ends with two arpeggiated diminished-seventh chords—the first pianissimo, the second fortissimo—before the third movement is played *attacca*. A recurring motif in its first movement consists of the left hand playing “D-flat - D-flat - D-flat - C” and echoes how this piece’s opening four-bar theme is repeated a semitone higher after its initial statement. This piece’s first movement marks the first time its composer omitted the exposition repeat in the sonata-allegro form, while the final movement goes even further by repeating only the development and recapitulation. This piece’s first movement ends with its composer’s first-ever use of a dynamic of three *p*’s and begins at a tempo of *allegro assai* in 12/8 meter. For 10 points, name this piece in F minor for solo keyboard that, like its “siblings” *Waldstein* and *Les Adieux*, was written during Ludwig van Beethoven’s middle period.

ANSWER: “Appassionata” Sonata [or Beethoven’s Piano Sonata No. 23, or Beethoven’s Opus 57; accept any answer mentioning Beethoven and 23 and piano sonata; accept any answer mentioning 23 and piano sonata after “Beethoven”; prompt on partial answers such as “Beethoven’s 23rd sonata”; prompt on answers mentioning “23” and “piano sonata” but not “Beethoven” before “Beethoven”]

**Bonuses**

1. Heinrich Schliemann discovered a mummy in Grave V ("five") at this site. For 10 points each:

[10] Name this Bronze Age archaeological site that Francesco Grimani identified in the early 1700s from Pausanias's description of the Lion Gate that led into its citadel.

ANSWER: **Mycenae** [accept **Mycenaean** culture or **Mycenaeans**]

[10] Mummies such as Tollund Man are often found in northern Europe in these wetland locations, the source of those bodies' alliterative name. Acidic conditions preserve bodies in these wetlands, which are the site of large peat deposits.

ANSWER: peat **bogs** [accept **bog** bodies]

[10] The prehistoric European mummy Ötzi, thought to be over 5,000 years old, was extensively tattooed with pigment made from this material.

ANSWER: **soot** [or **ash**; or **carbon**]

2. The three prototypical examples of these objects are named Shergotty, Nakhla, and Chassigny after the locations where they fell. For 10 points each:

[10] Name these objects that include the aforementioned "SNC" class, whose origins were discerned by a combination of their young age, their oxygen isotopic ratios, and the composition of noble gases trapped within them.

ANSWER: **Martian meteorites** [accept equivalents such as **meteors from Mars**; prompt on partial answer]

[10] The young age of most Martian meteorites indicates that they were probably ejected by impacts on this bulge in the western hemisphere of the planet. This bulge contains the volcanoes Arsia Mons and Pavonis Mons, with Olympus Mons off to the northwest.

ANSWER: **Tharsis** [accept **Tharsis** bulge or **Tharsis** montes]

[10] Impacts on the older surfaces of Mars do not produce meteorites, because the landscape is covered with this unconsolidated rock that lies on top of the bedrock. This material also covers most of the surface of the moon.

ANSWER: **regolith**

3. In Adrienne Rich's "Dreamwood," a child's "older self" sees a typing stand as one of these objects, made to help her understand that poetry "isn't revolution but a way of knowing / why it must come." For 10 points each:

[10] Name these things. The title jacket of James Merrill's "Self-Portrait in a Tyvek Windbreaker" is printed with one of these things, on which "the countries are violet, orange, yellow, green."

ANSWER: **maps** [accept world **maps**]

[10] This Native American poet wrote that "crucial to finding the way is this: there is no beginning or end," in her poem "A Map to the Next World." This member of the Muscogee Nation wrote the collection *She Had Some Horses*.

ANSWER: Joy **Harjo** [or Joy **Foster**]

[10] In his book *A Map of Misreading*, this critic metaphorized how readers and poets give meaning to poetry, conducting an analysis of Browning's "Childe Roland." Another book by this critic discusses six "ratios" through which writers creatively misinterpret their predecessors.

ANSWER: Harold **Bloom** [that book is *The Anxiety of Influence*]

4. Until 1942, NBC operated two nationwide radio networks, one of which was then spun off to become ABC. For 10 points each:

[10] Name both NBC radio networks.

ANSWER: **Red** Network and **Blue** Network [accept answers in either order]

[10] NBC was forced to divest itself of the Blue Network because of a ruling by this regulatory agency, which was established to oversee American radio. It was later chaired by Newton Minow, who called TV a "vast wasteland."

ANSWER: **FCC** [or **Federal Communications Commission**]

[10] The FCC's intervention led to the case of *NBC, Inc. v. United States*, which helped shape this area of U.S. law by holding that a regulatory agency can go beyond its organic statute. That principle was expanded with the doctrine of *Chevron* deference in this area of law that concerns executive-branch agencies.

ANSWER: **administrative** law

5. This island was plagued by the dragon Cychreides, who, according to one account, was driven out by a hero named Eurylochus and became an attendant to Demeter at Eleusis. For 10 points each:

[10] Identify this island that is named for a daughter of Asopus who was abducted by Poseidon. Their son Cychreus was succeeded as ruler of this island by Telamon, who came to this island after being exiled from Aegina.

ANSWER: Salamis

[10] After sacking Troy with Heracles, Telamon married Hesione, who bore him this son. This man was not allowed back in Salamis after the Trojan War because he failed to bring back the body of his half brother Ajax.

ANSWER: Teucer

[10] Teucer was foremost among the Greeks in the use of these weapons, which he wielded while protected behind Ajax's shield. Philoctetes brought to Troy a set of these weapons that Heracles had infused with hydra venom.

ANSWER: bow and arrow [accept either underlined portion]

6. This artist was a founder of the Ferus Gallery with critic Walter Hopps. For 10 points each:

[10] Name this artist who depicted two skeletal figures lounging on a filthy bunk bed in his 1966 installation piece *The State Hospital*.

ANSWER: Ed Kienholz ("KEEN-holts") [or Edward Kienholz]

[10] The board of supervisors of this city threatened to stop funding one of its art museums if Ed Kienholz's *Back Seat Dodge '38* was exhibited there. The Getty Center and the Gehry Residence are located in this West Coast city.

ANSWER: Los Angeles [or L.A.]

[10] Ed Ruscha (roo-shay), who depicted the LACMA on fire in one painting, made a photo book of 26 of these buildings located between Los Angeles and Oklahoma City.

ANSWER: gasoline stations [accept equivalents such as filling stations or petrol stations or service stations]

7. This trilateral meeting was named for the forest in Belarus where talks took place. For 10 points each:

[10] Name this 1991 agreement between the presidents of Belarus, Ukraine, and Russia stating that the Soviet Union had ceased to exist.

ANSWER: Belavezha Accords [or Belavezh Accords; or Belovezhskaya Accords]

[10] Two weeks later, the Alma-Ata Protocol confirmed the replacement of the Soviet Union by this regional organization made up of former Soviet republics.

ANSWER: Commonwealth of Independent States [or CIS; or Sodruzhestvo Nezavisimyykh Gosudarstv; or SNG]

[10] Other than the Baltic states, this was the only former Soviet republic that was not party to the founding of the CIS. A former Soviet foreign minister, Eduard Shevardnadze, was deposed as this country's president in the 2003 Rose Revolution.

ANSWER: Georgia [or Sakartvelo]

8. Susette Gontard is depicted as "Diotima" in *Hyperion*, a verse novel set in this country. For 10 points each:

[10] Name this country whose ancient culture fascinated German romantic poet Friedrich Hölderlin (HOOL-dehr-lin), who used its alcaic stanza form and described how the "sea roars at Parnassus" in this country in his poem "Bread and Wine."

ANSWER: Greece

[10] In *After Babel*, George Steiner examined Hölderlin's use of the phrase "my Zeus" in his translation of this ancient Greek work. In a notable reading of this work, Hegel argued that it depicts a public good and a private good each making a claim to exclusiveness.

ANSWER: Antigone

[10] A contemporary of Hölderlin with this surname claimed that Greek poetry was "objective," while modern poetry is merely "interesting." That critic of this surname published *Athenaeum* with his brother, August (OW-goost), a noted translator of Shakespeare.

ANSWER: von Schlegel (SHLAY-gul) [accept (Karl Wilhelm) Friedrich Schlegel or August Wilhelm Schlegel or the Schlegels]



9. Anthony Arduengo's group synthesized and isolated a prominent example of these compounds, which contained a pair of bulky adamantyl groups. For 10 points each:

[10] Name this class of air-stable compounds. Most of these compounds contain a nitrogen-based heterocycle.

ANSWER: persistent carbenes [prompt on stable carbenes; prompt on N-heterocyclic carbenes]

[10] Carbenes are defined as containing a carbon with one of these entities. The repulsion of bonds and these entities is the basis of VSEPR ("vesper") theory.

ANSWER: lone pairs [accept electron pair or anything indicating it is a pair of electrons]

[10] Stable carbenes such as NHCs may dimerize and exist in an equilibrium given this name. This carbene-dimer equilibrium was believed not to exist due to early experiments not observing mixing between dimers.

ANSWER: Wanzlick equilibrium

10. A work from this period compares propositions like "here is one hand" to a bed on which the river of language runs. For 10 points each:

[10] Identify this phase of a philosopher's output that included the *Blue and Brown Books*, *On Certainty*, and a work that appears to reject the picture theory in favor of a more fluid view of language.

ANSWER: the later Wittgenstein [accept any answer mentioning Ludwig (Josef Johann) Wittgenstein and the idea of his later period of work]

[10] Against the narrative of the early and later Wittgensteins, Cora Diamond emphasized the continuity in his work in an essay titled for this action. According to *Tractatus* 6.54, this metaphorical action must be performed by "anyone who understands me" after they recognize the work as nonsensical.

ANSWER: throwing away the ladder [accept synonyms for "throwing away" such as discarding]

[10] The aforementioned later Wittgenstein work is this aphoristic book, which discusses language games and criticizes the idea of a private language.

ANSWER: Philosophical Investigations [or Philosophische Untersuchungen]

11. This director illustrated the isolation of a horsekeeper during a lonely winter by using a set of identically framed shots of a stable door opening onto varying amounts of snowfall. For 10 points each:

[10] Name this American director who adapted stories by Maile Meloy (MY-lee mah-loy) into her film *Certain Women*, which explores the landscape and people of Montana through the lives of three women. She also directed *Wendy and Lucy*.

ANSWER: Kelly Reichardt

[10] In this black-and-white Alexander Payne film, David drives his father hundreds of miles from Montana to claim a cash prize he thinks he's won. In its closing sequence, the father proudly drives a new truck through his hometown.

ANSWER: Nebraska

[10] The prairies and suburban landscapes of the modern American heartland are also a subject of *To the Wonder*, a film by this director that is partly set in Oklahoma. His films *Days of Heaven* and *The Tree of Life* have similar themes.

ANSWER: Terrence Malick [or Terrence Frederick Malick]

12. This man's rebellion, which began on the day that Portugal imposed the *derrama* tax, was betrayed by a co-conspirator whose taxes were forgiven as a reward. For 10 points each:

[10] Name this second lieutenant who planned an uprising against the Portuguese government of Brazil in 1788.

ANSWER: Tiradentes [or Joaquim José da Silva Xavier]

[10] That planned rebellion was to take place in this state in southeastern Brazil that, with São Paulo, dominated Brazilian politics during the *café com leite* (ka-FAY kohm LAY-teh) period.

ANSWER: Minas Gerais

[10] The *café com leite* period began with the overthrow of the monarchy after the 1888 promulgation of the Golden Law, which ended this practice in Brazil.

ANSWER: slavery [accept bonded servitude or other similar answers or word forms]

13. In 2017, this man published English-language versions of his books *Islam: The Essentials* and *Introduction to Islam*. For 10 points each:

[10] Name this Swiss-born thinker whose books explore the relationship between Western Muslims and Islam.

ANSWER: Tariq **Ramadan**

[10] Ramadan's book *Western Muslims and the Future of Islam* contains a critique of this American political scientist's idea of the "clash of civilizations," which was influenced by Francis Fukuyama's "end of history" argument.

ANSWER: Samuel **Huntington** [or Samuel Phillips **Huntington**]

[10] In that book, Ramadan rejects the Islamic division of the world based on this Arabic word for "abode" or "house." Traditionally, Islam divides the world into one of these places called "al-Islam," or "of Islam," and another called "al-Harb," or "of war."

ANSWER: **dar** [accept **dar** al-Islam or **dar** al-Harb or **dur** or **diyarat** or **diyara**]

14. In this novel, a stranger tells a story of a hunter passing through the "Land of Absolute Negation and Denial" while searching for the bird Truth. For 10 points each:

[10] Name this novel whose protagonist, Lyndall, voices its author's feminism by telling her male friend Waldo that "to you [the world] says—*Work!* and to us it says—*Seem!*" after returning from school to the title place.

ANSWER: *The **Story of an African Farm***

[10] In *White Writing*, this author discussed Olive Schreiner's *The Story of an African Farm* as a source for the two genres of the "farm novel" and the "plaasroman" (PLAHSS-roh-mahn). This South African Nobel laureate used a remote farm as a setting in his novel *Disgrace*.

ANSWER: J. M. **Coetzee** [or John Maxwell **Coetzee**]

[10] The "farm novel" genre is also recalled by the experimental farm run by Gilbert in *When Rain Clouds Gather*, a novel by this author of *A Question of Power*. She settled in Botswana after fleeing South Africa in 1964.

ANSWER: Bessie **Head** [or Bessie Amelia Emery **Head**]

15. In a popular classroom experiment, this quantity is measured using a cathode emitter in a vacuum tube filled with helium and mounted between two Helmholtz coils. For 10 points each:

[10] Name this quantity, first measured in 1897, that can be determined using the aforementioned apparatus from the accelerating voltage, the magnetic field, and the diameter of the glowing ring that forms in the helium.

ANSWER: **charge to mass ratio** of the **electron** [accept equivalents such as **electron mass over electron charge** or **electron charge divided by mass**; accept inverse **mass to charge ratio** of the **electron**; prompt on "e over m" or "charge to mass ratio" or "m over e" or "mass to charge ratio"; do not accept or prompt on "charge" or "mass" alone]

[10] The original charge-to-mass-ratio experiment was carried out by this British physicist, who formulated the "plum pudding model" of the atom based on his studies of cathode rays.

ANSWER: J. J. **Thomson** [or Joseph John **Thomson**]

[10] Another commonly-recreated historical experiment by a British physicist involves bringing a charged object near to, but not touching, one of these objects, and observing the resulting deflection of an electroscope. These objects are sometimes named after Faraday, who did the original experiment.

ANSWER: Faraday ice **pail** [accept ice **bucket**]

16. In 2004, Hans-Jörg Uther published an updated version of this system in *The Types of International Folktales*. For 10 points each:

[10] Name this standard classification system for folktales, which are identified in this system using AT numbers.

ANSWER: **Aarne-Thompson** classification system(s) [or **Aarne-Thompson-Uther** classification system]

[10] In 2016, Sara Graça da Silva and Jamshid J. Tehrani used computational linguistics to propose that several "tales of magic" under the ATU classification scheme originated in this language, whose origin and spread is the subject of the Kurgan hypothesis.

ANSWER: **proto-Indo-European** [or **PIE**]

[10] Tehrani and da Silva's research used this type of computational method, which is derived from evolutionary biology. In biology, scientists using this method can construct namesake "trees" showing how various organisms have diverged from a common ancestor.

ANSWER: **phylogenetics** [accept **phylogenetic** tree(s) or **phylogeny** or **phylogenetic** inference; prompt on "cladistics" or similar answers mentioning "cladistic" or "clade"]

17. A drama by this composer juxtaposes the Devil's spoken role in counterpoint with the singing of the title characters. For 10 points each:

[10] Name this composer of *Ordo Virtutum*, some of the music for which also appears in the manuscript *Scivias*.

ANSWER: **Hildegard** of Bingen [or Saint **Hildegard** von Bingen]

[10] Hildegard's *Ordo Virtutum* is the earliest surviving example of this type of allegorical drama, in which a protagonist representing humanity is tempted by sinful forces but is aided by benevolent, religious forces.

ANSWER: **morality play** [prompt on "**morality**" or "**interludes**"]

[10] One of the few other 12th-century female composers whose work endured is this woman, whose song "A chantar" is the only *canço* by a female troubadour, or trobairitz, that survives with music intact.

ANSWER: Comtessa de **Dia** [or Countess of **Die**; prompt on "**Beatritz**" or "**Beatrix**" or "**Isoarda**"]

18. This king employed the neoclassical architect Leo von Klenze, who exerted great influence over the design of modern Athens after this man's son Otto was elected the first modern king of Greece. For 10 points each:

[10] Name this king of Bavaria who abdicated during the 1848 revolutions in favor of his son Maximilian.

ANSWER: **Ludwig I** of Bavaria [accept **Louis I** of Bavaria; prompt on "**Ludwig**" or "**Louis**"]

[10] Ludwig's philhellenism led him to decree that this Germanic name for "Bavaria" should be spelled with a "y" instead of an "i," a spelling that persists to this day.

ANSWER: **Bayern**

[10] With Ludwig's financing, Klenze designed this neoclassical temple near Regensburg, which serves as a Hall of Fame containing busts and plaques honoring people of Germanic heritage.

ANSWER: **Walhalla** ("Valhalla")

19. These proteins and fusion proteins make up a substantial portion of biopharmaceuticals for the treatment of cancers and autoimmune conditions. For 10 points each:

[10] Name these proteins produced by hybridoma cells. These proteins target a single epitope.

ANSWER: **monoclonal antibodies** [or **monoclonal antibody**; or **mabs**; prompt on **antibodies**]

[10] Hybridoma cells are produced by combining a myeloma cell with one of these lymphocytes. Plasma cells are a type of these cells designed to secrete antibodies.

ANSWER: **B** cell(s) [or **B** lymphocyte(s)]

[10] Greg Winter pioneered methods of performing this process on monoclonal antibodies to prevent HAMA reactions. Monoclonal antibodies that have undergone this process are suffixed -zumab and have modified variable domains in addition to the Fc modifications found in chimeric antibodies.

ANSWER: **humanisation** [accept word forms such as **humanised**]

20. One of these pieces that accompanies *A Personal Record* states the author's conviction that the world "rests on a few very simple ideas," particularly the "idea of Fidelity." For 10 points each:

[10] Name these writings, one of which is often called a manifesto of literary impressionism; that one declares that "my task which I am trying to achieve . . . is before all, to make you see."

ANSWER: **preface** by Joseph **Conrad** [accept specifically the **preface** to (*The Nigger of the*) **Narcissus**; prompt on partial or less-specific answers such as "**prefaces**" or "**Conrad's essays**"]

[10] More explicitly than Conrad did in his preface to *The Narcissus*, this friend of and collaborator with Conrad championed literary impressionism and attempted to use it in his novel *The Good Soldier*.

ANSWER: Ford Madox **Ford** [or Ford Madox **Hueffer**; or Ford Hermann **Hueffer**]

[10] In a surprising bit of metafiction, Conrad's preface to *Nostramo* attributes his knowledge of this fictional South American country, *Nostramo's* setting, to a book by the character Don José Avellanós. Juan Gabriel Vasquez wrote "The Secret History of" this country.

ANSWER: **Costaguana**