ACADEMIC COMPETITION FEDERATION

ACF NATIONALS 2018

ROUND 17
PLAYOFFS 9

packet by
THE EDITORS (9)

Tossups

1. Sedimentary sag basins form exclusively within these structures. Consensus holds that these structures grew out of partial melting that left behind depleted peridotite. Larger regions primarily made of granite and gneiss ("nice") are separated by greenstone belts within these structures. These structures are underlain by regions shaped like the hulls of boats called mantle keels. Most of these structures dating from the Archaean eon are highly deformed, while those from the Proterozoic eon exhibit larger stable structures. Today, Laurentia is one of these structures that composes most of the eastern U.S. and Canada. These structures are divided into basement rocks, shields, and platforms. For 10 points, name these oldest and strongest pieces of Earth's crust, which form the cores of continents.
ANSWER: cratons [prompt on "continents" or "continental crust" before "continents"; prompt on "shield" or "platform" or tectonic "plates"]

2. The narrator of a story reflects on the threefold prohibition on this activity introduced in a "well-known dialogue" in which a sage claims that it is unnecessary to forbid this action. A man engaged in this action is visited by his childhood friend, a red-haired cannibal, in a draft of one short story. Performing this activity leads the narrator to collapse in a puddle of his own blood, where a singing hound finds him, near the end of "The Investigations of a Dog." In response to the protagonist of another story whispering that he "always wanted you to admire" his doing this action, his overseer says, "We do admire it," but the overseer reverses the statement when the protagonist says that this action shouldn't be admired. That character performs this activity for Christ-like 40-day periods before he is buried "straw and all" and replaced with a "young panther" in the circus cage where crowds once gathered to watch him perform this action. For 10 points, what action does Franz Kafka's "The Hunger Artist" perform professionally?
ANSWER: fasting [accept equivalents such as starving oneself or not eating; accept answers mentioning forms of the word hunger before "Hunger"]

3. To celebrate this event, the chief magistrate of the United States opened a safe with a 19th-century autograph book collected by Philadelphia native Mrs. Charles Diehm. John Warner headed an organization called the ARBA that was established to plan for this event. After the New York World's Fair twelve years earlier, celebrations for this event included the second-ever "Operation Sail." Congress posthumously made George Washington general of the armies of the United States as part of this event. A dress from *The Wizard of Oz* and the original copy of the Louisiana Purchase traveled on a nationwide Freedom Train for this event. Colorado taxpayers rejected a plan to host the Olympic Winter Games in Denver to coincide with this event. A special quarter minted for this event features a drummer boy on the back. Gerald Ford sailed down the Hudson on a tall ship on July 4, 1976, during celebrations of, for 10 points, what event that celebrated 200 years of U.S. independence?
ANSWER: U.S. bicentennial

4. Similar to Antoine Meillet's (may-YEH's) work in comparative linguistics, this man sought to develop the field of comparative history in his article "Toward a Comparative History of European Societies." An unfinished review by this man of the study of history was posthumously published as *The Historian's Craft*. In the book *Strange Defeat*, also published posthumously, this historian blamed the fall of his native France in 1940 on the culture of the French military. A study by this man, which documented popular belief in a cure for scrofula, was titled *The Royal Touch*. His most extensive work was in rural social relations, as set out in the monographs *French Rural History* and *Feudal Society*. With Lucien Febvre, this man founded a journal for the study of history in the *longue durée*. For 10 points, name this cofounder of the *Annales* journal, a historian of Jewish descent who was executed for his activities in the French Resistance.
ANSWER: Marc Bloch [or Marc Léopold Benjamin Bloch]

5. In this text, an evil enchantress transforms into a cat, a wolf, and an old man in her effort to escape from the ropes of a prince who cuts her into pieces, causing her to vanish in smoke. That prince in this text forgives a demonic slave for falsely warning him of a desert with burning sand and no water for days. In this text, a man undertakes a journey involving fights against two giant wolves and a dragon to rescue his sisters from the Brazen Fortress. Upon being summoned with a burning feather, a creature in this epic advises a hero to soak the branch of a tamarisk tree in wine and then fashion it into an arrow. That arrow is later used to blind and kill the aforementioned Kayanian prince, a son of Goshtasp. Two heroes in this text each complete a series of seven labors called their *Heft-Khan*, before one slays the other with the help of his horse Rakhsh, his father, Zal, and the legendary Simurgh. For 10 points, name this text featuring the heroes Esfandiyar and Rostam, a poem by Ferdowsi that serves as the national epic of Iran.
ANSWER: *Shahnameh* [or *Shahnama*; accept *The Book of Kings*]

6. In a dramatic recitative near the end of this opera, a distressed character struggles to get past the first syllable of "Ah" in "Addio." Near the beginning of this opera's Act 1, two guards openly discuss how their boss listens only to his former tutor; later in this opera, that tutor is given a knife and instructed to commit suicide. Benedetto Ferrari may have written the music for this opera's final duet, "Pur ti miro, pur ti godo." In the prologue to this opera, Fortuna and Virtu each proclaim their superiority over the other before Amore enters, promising a story that proves his own supremacy. Anna Renzi created the role of a jilted wife in this opera who sings "Addio Roma" as she is sent off into exile along with Otho and Drusilla, who plotted with Ottavia to murder this opera's title character. For 10 points, name this final opera by Claudio Monteverdi, which centers on the mistress of the Roman emperor Nero.
ANSWER: The _Coronation of Poppea_ [or L'_Incoronazione di Poppea_]

7. Haranguing a group of characters, this figure says that they belong where "heads are lopped and eyes gouged out" and the "long moan of tortured men spiked underneath the spine and stuck on pales" are heard. In his first appearance, this character declares, "I'll not leave you—no, I'll stand beside you, your protector till the end," as he walks toward a sleeping man who clutches a stone amidst other sleeping characters. In his best-known speech, he declares that a mother is "just a nurse to that new life embedded in her" and "the parent is the one who plants the seed, / the father." This character defends the protagonist at a trial where the latter is acquitted because the vote of this character's sister breaks the tied jury vote. The play opens with a priestess of this god finding the protagonist in his temple, seeking sanctuary from the title characters. For 10 points, in Aeschylus's _The Eumenides_, what god purifies Orestes at Delphi?
ANSWER: _Apollo_

8. Elements in this group make up the heteroatoms found in one-dimensional organic superconducting Fabre and Bechgaard salts, in which four atoms from this group are substituted into a molecule of fulvalene. The favored material for auto-optic tunable filters contains a pair of elements in this group. Phase-change memory exploits the property of a material named for containing members of this group; that material can undergo a thermally driven amorphous-to-crystalline phase change. Along with molybdenum, elements in this group form a class of octahedral clusters that serve as type II superconductors called Chevrel phases. The only element that naturally exists in a simple cubic structure is in this group, and the most common allotrope of another element in this group is an octatomic ring which forms bright yellow crystals. For 10 points, name this "ore forming" group of the periodic table that contains polonium, selenium, sulfur, and oxygen.
ANSWER: _chalcogen_s [accept _group 16_; accept _oxygen family_ until mentioned]

9. British explorer Alexander Burnes clashed with Lord Auckland after Auckland dethroned a ruler of this country. A leader of this country known as the "Iron Amir" issued identity cards called _tazkiras_ and formed a vast spy network using his _kotwal_ officials. In this country, Mahmud Tarzi published the newspaper _Seraj-ul-Akhbar_, and Tarzi's daughter married King Amanullah, whose planned social and religious reforms stopped when he was overthrown by the bandit Bachey Saqao. Abdul Rahman Khan put down several revolts by the Ghilzai tribe and conquered the formerly pagan people of a region in this country he renamed Nuristan. In this country, one commander's column was massacred by the son of Dost Mohammed, the founder of its Barakzai dynasty. Ahmed Shah Durrani is considered to have founded the modern state in, for 10 points, what Asian country, the primary site of the 19th-century "Great Game," which was invaded by the Soviets in 1979?
ANSWER: _Afghanistan_

10. Data from Canada was used to model these entities as a "collective setting" whose combined demand is modeled using a Slutsky matrix obeying symmetry and rank conditions in a 1998 Martin Browning and Pierre-André Chiappori paper in _Econometrica_. A 1991 paper by Jess Benhabib, Richard Rogerson, and Randall Wright applied a theory of production in these entities to explain business cycles. The 1965 paper "A Theory of the Allocation of Time" proposed a framework used to construct production functions for these entities. The representative agents in the theory of Ricardian equivalence are these entities under dynastic and altruistic assumptions. A 1981 "treatise" on these entities restated a theorem holding that, even if their members are selfish, they have incentives to help one another. The "rotten kid theorem" concerns incentive alignments in, for 10 points, what fundamental units that are central to Gary Becker's "new household economics"?
ANSWER: _families_ [or the _family_; accept answers mentioning human _families_ such as _family_ unit or nuclear _family_; accept _married couple_s or _marriage_s or similar answers indicating _couples who live together_ before "Ricardian"; accept answers mentioning family _household_s or _household_ production before "household"]

11. In *Drosophila*, dorsal-related immunity factor is homologous to parts of this complex, and the Pickle protein inhibits an equivalent of this complex known as Relish. A mutation in a protein that activates this complex causes an immunodeficiency disease that may present as incontinentia pigmenti or ectodermal dysplasia. This complex's activity upregulates the expression of FLIP, a caspase-8 inhibitor. The precursors to a pair of proteins in this complex, which are ubiquitinated and sent to the proteasome to be activated, are called p100 and p105. Most of the proteins in this complex contain a Rel homology domain. The receptor RANK is named for activating this complex. This complex is activated when IKK phosphorylates the inhibitors that prevent this complex from entering the nucleus. This set of transcription factors is typically activated in response to TNF-alpha. For 10 points, name this set of transcription factors central to the inflammatory response, named for their interaction with a B-cell immunoglobulin enhancer.
ANSWER: NF-kappa-B [accept NFKB; accept nuclear factor kappa-light-chain-enhancer of activated B cells]

12. A version of this theory based on nine requirements of "practical reasonableness," which is itself one of the seven "basic goods," was put forth in John Finnis's magnum opus, whose first title concept is this theory. A proponent of this theory introduced the Nazi Germany–inspired example of the "grudge informer" in a 1958 debate and represented its tenets with the opinion of Justice Foster in his article "The Case of the Speluncean Explorers." That proponent of a "procedural" form of this theory, Lon L. Fuller, engaged in a published exchange with H. L. A. Hart, a champion of the rival positivist theory. This theory's namesake precepts were distinguished from their eternal, divine, and human counterparts by Thomas Aquinas, whose account of this theory influenced its application by Hugo Grotius. For 10 points, name this theory holding that legal principles should be grounded in morality, and whose two-word name refers to universal principles discoverable by reason.
ANSWER: natural law theory [accept answers mentioning a form of the word natural and the idea of law or legal theory such as legal naturalism; prompt on "naturalism" or "natural" or "procedural naturalism"; accept *Natural Law and Natural Rights*; prompt on "natural rights theory"]

13. A poem titled for this activity notes that "suddenly you can hardly stand / the love flooding you for your brother," who gets up "before noon to study his German" and sings "Wagner, the opera you hate most, / the worst music ever invented." That Philip Levine poem states that "if you're / old enough to read this you know what / [this activity] is, although you may not do it." In a Coleridge poem, slugs leaving their lair and bees stirring make up nature's examples of this activity. That poem states that this activity "without Hope draws nectar in a sieve." In response to "what place is this?" and "where are we now?" the title substance of a Carl Sandburg poem declares, "I am the grass," and asks, "Let me do" this action. A rumination on death ends by recognizing that this this action "has to be done" in a poem that illustrates it with "postmen like doctors" who "go from house to house." For 10 points, the speaker of Philip Larkin's "Aubade" says that he does what activity "all day" before getting "half-drunk at night"?
ANSWER: work [accept forms of the word work such as working or doing work; prompt on synonyms such as "labor"]

14. An aria by this composer in sonata form uses a "wandering" development to represent the jagged flow of streams, with a large melisma on the word "serpent." That aria is from a larger piece by this composer with a critical score edited by A. Peter Brown, and that piece uses the rhythm of a siciliana for the aria "Nun beut die Flur das frische Grün." A solo cello introduces an extensive theme later taken up by a solo bass vocalist in one of this composer's settings of the words "Qui tollis peccata mundi." This composer's last three masses are all in the key of B-flat major, and the last of those is sometimes nicknamed for its prominent wind parts. Another mass by this composer got its nickname in response to the shocking outcome of the Battle of the Nile. For 10 points, name this composer of the *Harmoniemesse*, the *Missa in tempore belli*, the *Nelson Mass*, and the oratorio *The Creation*.
ANSWER: Franz Joseph Haydn

15. The *Croyland Chronicle* claims that this family and their followers cowered at Bishop's Lynn after an unlawful levy of Exeter. A member of this family suffered a miscarriage at sea when the Calais garrison fired upon this family's vessels, and that woman may have been poisoned by Ankarette Twynyho ("TWIN"-ih-hoh). This family's largest fief was based at Middleham Castle. A member of this family, who teamed up with Robin of Redesdale to win the Battle of Edgecote Moor, feuded with Elizabeth Woodville, allied with Margaret of Anjou to put Henry VI back on the throne, and died at Barnet. A member of this family who married the Duke of Gloucester became queen of England after her husband took power following the murder of the Princes in the Tower. Richard III's wife, Anne, was a member of, for 10 points, what prominent English family during the War of the Roses, whose members also included an Earl of Warwick nicknamed the "Kingmaker"?
ANSWER: House of Neville [or Neville family; or the Nevilles]

16. The kinetic diameter is equal to "one over the square root" of quantity "pi times number density times this quantity." In an ideal gas, the thermal conductivity is proportional to the product of particle density, average velocity, heat capacity, and this quantity. This quantity can be divided by any macroscopic dimension of interest to obtain the Knudsen number. In acoustics, this quantity is equal to "four times the volume of an enclosure" divided by "the total surface area of the enclosure." For effusion to occur, the pinhole through which gas escapes must have a small diameter compared to this quantity. In the kinetic theory of gases, this quantity equals "one over the product of the number density and the scattering cross section," and it can also be computed as the "average velocity times the scattering time." For 10 points, name this quantity defined as the average distance a particle travels between collisions.
ANSWER: mean free path

17. The first people to see a sketch of this portrait, which was the result of the first sitting its artist accepted since the age of 16, included Andrew Green and the subject's two brothers, one of whom had recently bored its artist by showing him a book of Japanese prints. The subject of this portrait stated that it required 80 sittings and wrote that "it is the only reproduction of me which is always I, for me." This portrait, whose face was executed from memory after its artist returned from a trip to look at Iberian sculpture, was the subject of the artist's remark that "everybody says that she does not look like it, but that does not make any difference—she will." This portrait hung in the same room as Henri Matisse's *The Joy of Life*, which was purchased by its subject's brother Leo. The subject has vacant eyes and a mask-like face in, for 10 points, what portrait from Picasso's Rose Period that is frequently discussed in its subject's *The Autobiography of Alice B. Toklas*?
ANSWER: *Portrait of Gertrude Stein* [accept *Portrait of Stein* or any answers suggesting Pablo Picasso's portrait of Gertrude Stein]

18. A character in this novel imagines her cat telling stories that all begin, "My mother, who was the first cat, told me this," while they sit by a creek near a buried box of silver dollars. In a children's rhyme repeated in this novel, one of the main characters asks another, "Would you like to go to sleep? down in the boneyard ten feet deep!" In this novel, a prized collection of Dresden figurines is destroyed during a riot that begins when the fire chief puts out a fire at the protagonist's house and then silently picks up a stone and throws it through a window. A doll buried in a field and a book nailed to a tree are among the "safeguards" this novel's protagonist uses to protect her home, which her greedy cousin Charles intrudes on. The narrator of this novel lives with Uncle Julian and her sister Constance, the only people who survived when she poisoned her family's sugar bowl with arsenic. For 10 points, the teenager Merricat Blackwood resides in the title mansion in what Shirley Jackson novel?
ANSWER: *We Have Always Lived in the Castle*

19. A type of these practices "of rebellion" was identified by South African anthropologist Max Gluckman in a book titled for them "in South-East Africa." Jane Ellen Harrison, F. M. Cornford, and A. B. Cook were part of a group of classicists named for studying these practices at Cambridge. A scholar's assertion that performing these practices "is *work*!" partially inspired a landmark text in the study of these entities, which argues that they serve to align or integrate thought and action and was titled repetitively by Catherine Bell for their "theory" and their "practice." Erving Goffman's essay "On Face-work" was published in a collection of essays titled for the "interaction" type of these practices. A chapter on the "paradoxes of twinship" appears in a book about "structure and anti-structure" in these practices. Victor Turner wrote about the "process" of, for 10 points, what class of social practices characterized by ordered performance, such as the Hindu puja and the Catholic Mass?
ANSWER: rituals [accept *Rituals of Rebellion in South-East Africa* or Ritualists at Cambridge or Cambridge Ritualists or *Ritual Theory, Ritual Practice* or *The Ritual Process: Structure and Anti-Structure*]

20. As a kid, this teetotaler supposedly sabotaged a saloon and drove its owner out of New Canaan, Connecticut. An "indignation meeting" in Boston in support of Ezra Heywood, who had been arrested at the behest of this man, helped convince Rutherford B. Hayes to grant Heywood a pardon. Colonel James Blood was among those pursued by this man in the wake of the exposure of Elizabeth Tilton's affair with Henry Ward Beecher. This man raised funds to purchase the printing press of William Hayes, a surgeon he had driven to suicide. This man refused to take a government salary after being appointed to a special agent post by John Creswell, instead relying on funds from the YMCA. George Bernard Shaw coined an eponym after this man, who had Shaw's play *Man and Superman* removed from the New York Public Library. Birth control advocates such as Margaret Sanger were hounded by, for 10 points, what man whose eponymous law prohibited the mailing of obscene material?
ANSWER: Anthony Comstock [accept Comstock Law]

Bonuses

1. This man's brother, Arthur, amassed a huge collection of African American literature that he sold to Howard University, where it became the basis for a research library co-named for Jesse Moorland. For 10 points each:
[10] Name this Jewish professor of literature at Columbia who turned his full energy toward civil rights after a clash with university president N. M. Butler that ended this man's academic career.
ANSWER: Joel Elias **Spingarn**
[10] Both Joel and Arthur Spingarn served as honorary presidents of this civil rights and racial justice group that still awards the Spingarn Medal in Joel's honor.
ANSWER: **NAACP** [or **National Association for the Advancement of Colored People**]
[10] The 1935 Spingarn Medal was awarded to this educator, known as the "First Lady of the Struggle," who established a private black college in Daytona Beach, Florida.
ANSWER: Mary McLeod **Bethune** [or Mary Jane McLeod **Bethune**; or Mary Jane **McLeod**; prompt on "**Bethune**-Cookman University"]

2. According to its artist's autobiography, the casting of this sculpture caused the furnace to explode and the roof of his house to catch fire, forcing him to add pewter plates and bowls to lower the heat. For 10 points each:
[10] Name this bronze sculpture by Benvenuto Cellini. It depicts a Greek hero wearing a winged helmet as he stands on top of his foe's collapsed body, having just decapitated her.
ANSWER: *Perseus with the Head of Medusa*
[10] This Medici commissioned the *Perseus*, in addition to ordering the construction of the Uffizi. Cellini's portrait bust of this man shows him in Roman armor, including a breastplate that features a Medusa with hair made of fruit.
ANSWER: **Cosimo I** de' Medici, Grand Duke of Tuscany [prompt on "**Cosimo**"; do not accept or prompt on "Cosimo the Elder" or "Cosimo il Vecchio"]
[10] Cellini's *Perseus* is located in this open-air sculpture gallery on the Piazza della Signoria. Giambologna's *Rape of the Sabine Women* is also located in this gallery named for Cosimo's mercenary pikemen.
ANSWER: **Loggia dei Lanzi** [prompt on "**Lanzi**" or "**Loggia della Signoria**" or "**Loggia dell'Orcagna**"]

3. This author depicted the language spoken by Nimrod after the confusion of tongues with the nonsensical phrase "Raphèl mai amècche zabì almi." For 10 points each:
[10] Name this author who described how the *oc*, *oil*, and *si* language groups formed after the destruction of Babel in his treatise *On Eloquence in the Vernacular*, which also discusses an "illustrious" poetic language.
ANSWER: **Dante Alighieri** [or **Dante** degli **Alighieri**; accept any underlined portion]
[10] Dante reversed the theory of language he put forth in *De vulgari eloquentia* in the *Divine Comedy*, in which this character gives a speech explaining that all human languages are impermanent. Dante meets this character after St. John in *Paradiso* XXVI ("26").
ANSWER: **Adam**
[10] In another untranslatable phrase from the *Divine Comedy*, Plutus addresses this character as "papé." Virgil and Dante climb down the body of this ruler of the Inferno to reach Purgatorio.
ANSWER: **Satan** [accept **Lucifer**; prompt on "the **Devil**"]

4. The author of this book penned a 2010 editorial with Anmol Chaddha about "why we're teaching *The Wire* at Harvard" whose byline notes that this book inspired the show's second season. For 10 points each:
[10] Name this 1996 sociological study that examines the poverty resulting from structural changes leading to job loss in urban ghettos.
ANSWER: *When Work Disappears* [or *When Work Disappears: The World and the New Urban Poor*]
[10] The author of *When Work Disappears*, William Julius Wilson, wrote the 2006 book *There Goes the Neighborhood*, which examines demographic change in four neighborhoods in this city. Wilson's student Sudhir Venkatesh conducted research at public housing projects in this city published as *Gang Leader for a Day*.
ANSWER: **Chicago**
[10] Wilson is an exponent of a theory of urban poverty based on a "mismatch" of this economic variable. The Tiebout (TEE-boh) model explains how people dissatisfied with local governance can "vote with their feet" by changing this variable.
ANSWER: **spatial** variable [accept **spatial mismatch** or answers indicating **location** or **geography** or **where people live**]

5. The first script created for this program, DOCTOR, was written to simulate a client-centered therapist. For 10 points each:
[10] Identify this early chatbot program created by Joseph Weizenbaum and named after a female literary character. It is one of several candidates for the first program to pass a Turing test.
ANSWER: ELIZA
[10] Bernie Cosell rewrote ELIZA in this functional language commonly used in early AI systems. This Polish-notation language comes in dialects such as Scheme and a "Common" variant.
ANSWER: Lisp [or LISP]
[10] This language processing program, developed by Terry Winograd, allowed users to instruct the computer to manipulate objects in what was essentially a virtual sandbox. Its memory allowed for it to remember context from past conversations.
ANSWER: SHRDLU ("SURE"-d'loo or "S-H-R-D-L-U")

6. For 10 points each, answer the following about Charles III's 18th-century Bourbon reforms.
[10] The reforms restricted the influence of this class in Spain's colonies. Members of this class were of European descent, but born overseas, and resented the privileges granted to the *peninsulares*, who were born in Spain.
ANSWER: creoles [or criollos]
[10] As a result of the Bourbon reforms, *peninsulares* began dominating these high courts in Spanish colonies that also exercised many executive and legislative powers.
ANSWER: *Real Audiencias* [accept Royal Audiences; prompt on "chancillerías" or "chanceries" or word forms of "chancery"]
[10] In 1767, over 2,000 members of this group were expelled from the Spanish colonies due to the Bourbon reforms. In South America, this group established settlements called "reductions."
ANSWER: Jesuits [or Society of Jesus; accept answers mentioning Jesuits such as Jesuit priests or Jesuit missionaries; prompt on "SJ" or "Catholics"]

7. This composer deconstructed one of Domenico Scarlatti's sonatas for the second movement of his *Baroque Variations*. For 10 points each:
[10] Name this German-born American composer who attempted to reconcile indeterminacy with traditional procedures in pieces such as *Time Cycle*, which allows the orchestra to whisper the numbers of the clock at the composer's discretion.
ANSWER: Lukas Foss [or Lukas Fuchs]
[10] Foss's contemporary John Cage took the element of chance to extremes with this piece, where the pianist sits at the instrument for the title length of time and the only sound is the ambience.
ANSWER: 4′33″ ["four minutes, thirty-three seconds" or "four thirty-three"]
[10] This composer used the Maxwell–Boltzmann probability distribution as the basis for his piece *Pithoprakta*. He also composed *Metastaseis* (meh-TAHS-tah-sis), which drew upon his training as an architect.
ANSWER: Iannis Xenakis (YAH-nis kse-NAH-kis)

8. The racist photographer Julien becomes obsessed with an Algerian immigrant named for this character in a Leila Sebbar novel. For 10 points each:
[10] Name this character whose "sister" titles a novel by Algerian author Assia Djebar about the wives Isma and Hajila. In the first section of an earlier book, this character's sister visits her bedroom as part of a prearranged ploy.
ANSWER: Scheherazade [or Sherazade; or Shahrzad]
[10] Scheherazade distrusts King Shahryār after being spared by him in this 1979 novel, a sequel to *One Thousand and One Nights* that includes stories like "Nur Al-Din and Dunyazad" and "The Cap of Invisibility."
ANSWER: *Arabian Nights and Days*
[10] *Arabian Nights and Days* is by this Nobel laureate. The *Nights* is one of the books that inspires Kamal to study at the Teacher's College instead of a law school in this author's *Cairo Trilogy*.
ANSWER: Naguib Mahfouz

9. In Edmund Husserl's phenomenology, "intentional" features of this sort encapsulate anticipated elements of experience, such as the unseen sides of a house. For 10 points each:
[10] Name this type of feature that is used to metaphorically refer to a historically effected interpretative perspective in Hans-Georg Gadamer's *Truth and Method*, which describes the gaining of a common understanding as the "fusion" of these features.
ANSWER: horizons
[10] The notion of the horizon is central to Gadamer's account of this field that involves the theory and methodology of interpretation. Friedrich Schleiermacher and Wilhelm Dilthey were 19th-century developers of this field.
ANSWER: hermeneutics
[10] In *Truth and Method*, Gadamer contrasts *Erfahrung*, a type of ongoing, horizon-widening experience, with the more immediate type of lived experience denoted by this German word, whose history is the subject of a chapter in the book.
ANSWER: *Erlebnis*

10. Isoamyl alcohol may be used in this technique as an anti-foaming agent, and a form of this protocol adds guanidinium thiocyanate to denature RNAses. For 10 points each:
[10] Identify this nucleic acid purification protocol named for the two chemicals that form its organic phase. Acidic solution may be used in this technique to separate DNA from RNA.
ANSWER: phenol-chloroform extraction
[10] Nucleic acids may also be purified using one of these items, which are used with a centrifuge. When these items are used, DNA binds to the silica found within them, impurities are washed away, and then the DNA is washed out with an elution buffer.
ANSWER: spin columns
[10] This substance is often added to the binding buffer when using a spin column and can be added to DNA solutions to precipitate DNA. This two-carbon alcohol is preferred to isopropanol due to being more polar and more volatile.
ANSWER: ethanol [or ethyl alcohol; or EtOH; accept C_2H_5OH]

11. This king, whose story is told in an epic poem by Chand Bardai, fought off several Islamic invasions before being defeated and captured at the second battle of Tarain. For 10 points each:
[10] Name this Hindu king from the Chauhan dynasty who controlled much of what is now northwest India in the late 12th century.
ANSWER: Prithviraj Chauhan [or Prithviraj III]
[10] Prithviraj was defeated by Muhammad of Ghor, whose Turkic slave Qutub-ud-din Aybak founded the first of five ruling dynasties of the Delhi Sultanate; that dynasty is most commonly known by this name. The term "Burji" refers to the later dynasty of a "sultanate" known by this name.
ANSWER: Mamluk [or Mameluke or Mamalik; accept Mamluk Dynasty or Mamluk Sultanate or Saltanat al-Mamalik; prompt on "Slave Dynasty" or "Ghulam Dynasty"]
[10] The Delhi Sultanate ended in 1526 when Ibrahim Lodi was defeated by Babur at this battle.
ANSWER: First Battle of Panipat [prompt on "Battle of Panipat"]

12. This man's involvement in the Sunday Tramps walking club led to his meeting Paul Vinogradoff, who influenced this man to write on history. For 10 points each:
[10] Name this Victorian era writer and lawyer who collaborated with Frederick Pollock to write the majority of *The History of English Law before the Time of Edward I* and is considered the father of English legal history.
ANSWER: Frederic William Maitland
[10] Maitland's remark that "anthropology will have the choice between being history and being nothing" inspired Gordon Willey and Philip Phillips's motto of the "processual" school of this social science, which held that this discipline is "anthropology or it is nothing."
ANSWER: archaeology [accept processual archaeology or new archaeology; accept answers mentioning forms of the word archaeology such as archaeologists]
[10] Maitland's widow, the playwright Florence Henrietta Fisher, later married Francis, a son of this botanist who penned *The Descent of Man*.
ANSWER: Charles Darwin

13. An essay on the "future of the novel" mocks this technique, suggesting that characters in every novel that uses it ask, "Did I feel a twinge in my little toe, or didn't I?" For 10 points each:
[10] Name this technique with a name taken from William James's *The Principles of Psychology*. In this technique, a character's thoughts and perceptions are portrayed in continual flow.
ANSWER: stream of consciousness
[10] The term "stream of consciousness" was first applied to literature in May Sinclair's review of *Pointed Roofs*, the first book in this thirteen-book Dorothy Richardson series. It uses a style of "feminine prose" in contrast to what Richardson called "the current masculine realism."
ANSWER: *Pilgrimage*
[10] This author criticized "Miss Richardson" in the aforementioned essay "Surgery for the Novel—or a Bomb." This author declared, "Ours is essentially a tragic age," to open a novel that often refers to William James's concept of the "bitch-goddess" of Success.
ANSWER: D. H. Lawrence [or David Herbert Lawrence]

14. Matt Taibbi, who criticized the prosecution of this bank in his book *The Divide*, is interviewed in a 2016 documentary in which he contrasts this institution with those "too big to fail." For 10 points each:
[10] Name this small bank, owned by the Sung family, that was the only financial institution prosecuted in the wake of the 2008 financial crisis despite its relatively low mortgage default rate. *Hoop Dreams* director Steve James made an Oscar-nominated documentary about how this bank was "small enough to jail."
ANSWER: Abacus Federal Savings Bank [accept *Abacus: Small Enough to Jail*]
[10] Abacus is based in this neighborhood in Lower Manhattan, which has been overtaken in size by a rapidly growing satellite neighborhood in Flushing.
ANSWER: Chinatown [or Mànhādùn huábù]
[10] *Abacus: Small Enough to Jail* aired on this TV network's *Frontline* program. Jim Lehrer and Judy Woodruff have hosted this network's flagship *NewsHour* program.
ANSWER: PBS [or Public Broadcasting Service]

15. Kepler's second law holds for any force of this type, but the first and third generally hold only for the inverse-square case. For 10 points each:
[10] Name these forces, exemplified by gravity, whose magnitude depends only on the distance between the bodies of interest.
ANSWER: central forces
[10] The inverse-square dependence of gravity also allows for the existence of this conserved vector quantity, which points from the center of force to periapsis when the orbiting body is at periapsis.
ANSWER: Laplace–Runge–Lenz vector [accept Laplace vector or Runge–Lenz vector or Lenz vector]
[10] Position in a Keplerian orbit can be specified by a combination of the mean anomaly, the eccentric anomaly, and this quantity. In a planet's case, this is the angle between perihelion and the current position as seen from the principal focus.
ANSWER: true anomaly [prompt on anomaly]

16. This country was granted autonomy by the Congress of Berlin, but its borders were reduced from those of the Treaty of San Stefano and it lost the province of Eastern Rumelia. For 10 points each:
[10] Name this Eastern European country whose "horrors" under Turkish rule were highlighted by William Gladstone in the Midlothian campaign.
ANSWER: Bulgaria [or Bălgariya; accept Bulgarian horrors]
[10] The "Bulgarian horrors" are also known as the "uprising" of this calendar month, which saw the beginning of an 1876 Bulgarian insurrection that was brutally suppressed by irregular Turkish *bashi-bazouk* forces.
ANSWER: April [accept April Uprising or Aprilsko văstanie]
[10] After Bulgaria annexed Eastern Rumelia, it was invaded by Serbia, which was ruled by this family. This family and the rival Karadordevic family vied for control of the Serbian throne during the 19th century.
ANSWER: Obrenović dynasty [or Obrenović family; or the Obrenovićes; or Obrenovići]

17. Steven Cantor's film *Blood Ties* is his first of two about this artist, who depicted Jessie with a swollen eye caused by a gnat bite in the photo *Damaged Child*. For 10 points each:
[10] Name this photographer whose intimate black-and-white photos of her children were collected in *Immediate Family*.
ANSWER: Sally **Mann** [or Sally Turner **Munger**]
[10] A 2016 exhibition at the Gagosian in New York titled *Remembered Light* showed photographs Mann took of the studio of this fellow artist. His series *Nine Discourses on Commodus* was made after the John F. Kennedy assassination and feature some of his characteristic scribbled text.
ANSWER: Cy **Twombly** [or Edwin Parker **Twombly**, Jr.]
[10] Mann's 2003 exhibit *Last Measure* consisted of photographs of battlefields from this war. Those photographs were inspired by photographs taken by Alexander Gardner and Mathew Brady during this war.
ANSWER: American **Civil** War [accept answers indicating **Civil** War and U.S.]

18. This poet declared that "beauty is that Medusa's head / which men go armed to seek and sever" in his long poem *The Happy Marriage*. For 10 points each:
[10] Name this poet who Franklin Roosevelt appointed as librarian of Congress. He went on to write the screenplay for the documentary *The Eleanor Roosevelt Story* and the poems "Ars Poetica" and "You, Andrew Marvell."
ANSWER: Archibald **MacLeish**
[10] MacLeish served in between Stephen Vincent Benét and W. H. Auden as judge for a competition for "younger poets" run by this institution, which has historically selected the best first collection by a poet under 40.
ANSWER: **Yale** University [or **Yale** University Press; accept **Yale** Series of **Younger Poets**]
[10] This poet of *War of the Foxes* won the Yale prize in 2004 with his collection *Crush*. His poem "Scheherazade" opens: "Tell me about the dream where we pull the bodies out of the lake / and dress them in warm clothes again."
ANSWER: Richard **Siken**

19. Andre LaCocque and Paul Ricoeur debated this book in their essays "The Shulamite" and "The Nuptial Metaphor" for the *Thinking Biblically* collection. For 10 points each:
[10] Name this biblical book, the subject of "meditations" in which Teresa of Ávila takes great joy in the fact that it opens with the narrator "speaking with one person and asking peace from another."
ANSWER: *Song of Songs* [or *Song of Solomon*; or *Canticles*; or *Sir HaSirim*]
[10] In a preface to his Latin translations of Origen's homilies on the *Song of Songs*, this man wrote that "in his other works, Origen habitually excels others; in this commentary, he excelled himself." He also made the definitive translation of the Bible into Latin.
ANSWER: St. **Jerome** [or Eusebius Sophronius **Hieronymus**]
[10] This abbot applied his four-layer model of biblical interpretation to his sermons on the *Song of Songs*. He reemphasized *lectio divina* in his leadership of Benedictine reforms that led to the formation of the Cistercians.
ANSWER: **Bernard** of Clairvaux [or **Bernardus** Claraevallensis; prompt on "**Clairvaux**" or "**Charaevallensis**"]

20. The Fowler process is used to add this element to hydrocarbons, and this element replaces the amine group on aniline in the Balz–Schiemann reaction. For 10 points each:
[10] Name this element, three atoms of which are found in a group found in the triflate group as well as the structures of celecoxib (seh-leh-COX-ib) and Prozac.
ANSWER: **fluorine** [or **F**]
[10] Because of this perfluorocarbon's ability to dissolve large amounts of oxygen, it has been investigated as a blood substitute. Along with a fluorinated tri·butyl·amine derivative and albumin, this compound made up Fluosol, and it can be prepared by fluorinating tetralin.
ANSWER: **perfluorodecalin**
[10] The Balz reaction can be considered a variant of this reaction, in which an aniline forms a diazonium salt that is then halogenated.
ANSWER: **Sandmeyer** reaction