



ACADEMIC COMPETITION FEDERATION

2014 ACF NATIONALS
PACKET 3 BY THE EDITORS

TOSSUPS

1. Michael Frayn adapted the structure of this play for his 2008 play *Afterlife*. Every year, this play is performed on the steps of the cathedral where Mozart was baptized as part of a tradition that began with a 1920 production starring Alexander Moissi, directed by Max Reinhardt, who made it an annual fixture of the Salzburg Festival season. The main character of this play calls out to a companion lying on the ground, who is too weak to move until she is revived, after her sister points the protagonist to the House of Salvation to make a confession. The title character carries a “full book of his accounts” and receives a “garment of sorrow” made from his tears. Hugo von Hofmannsthal wrote a notable adaptation of this play, which ends with a speech by a Doctor of Theology reminding the audience how Beauty, Strength, Discretion, and Knowledge abandoned the title character on his journey, since man can only take Good Deeds to the grave. For 10 points, name this medieval morality play in which the anonymous title character is forced by Death to go on an allegorical journey to achieve Christian salvation.

ANSWER: EVERYMAN [or The SUMMONING OF EVERYMAN]

2. This technique forms the basis for a form of heterodyne interferometry in which two frequency-shifted reference waves are used to obtain a resolution of thousandths of a wavelength. Leith and Upatnieks pioneered an off-axis version of this technique, which eliminated an unwanted twin image generated in the original formulation. The characteristic patterns generated by this technique are sections of hyperboloidal surfaces, and are typically recorded in an emulsion. In this technique, light from a laser is split into two parts, with one part being used to illuminate an object and the other part, called the reference beam, illuminating the recording material, on which the object beam and reference beam produce an interference pattern. For 10 points, identify this technique invented by Denis Gabor, in which illumination of the recording medium with the reference light reveals a three-dimensional image of the object.

ANSWER: HOLOGRAPHY [or HOLOGRAM]

3. This monarch founded a museum called the Green Vault, which contains his obelisk crafted by his royal goldsmith Johann Dinglinger. He also built the Zwinger palace using architect Matthaus Poppelmann, and opened it to celebrate his son’s marriage to Archduchess Maria Josepha. The death of this king led three powers to sign the Treaty of the “Three Black Eagles,” partly named because this king founded the Order of the White Eagle. He once held an animal-tossing contest where nobles vied to see who could throw foxes, rabbits, badgers, and wildcats the farthest. His son of the same name was dominated by his advisor Heinrich von Bruhl. This king from the house of Wettin was backed by the Sandomierz Confederation, but was later forced to abdicate under the Treaty of Altranstadt, which installed his rival Stanislaw Lesczynski. For 10 points, name this Polish king during the Great Northern War, who was known as “the Saxon Hercules” and “the Strong.”

ANSWER: AUGUSTUS THE STRONG [or AUGUSTUS II of Poland; also accept “AUGUSTUS I” because he was also known as FREDERICK AUGUSTUS I and AUGUSTUS I, ELECTOR OF SAXONY; accept Augustus, the SAXON HERCULES until it is read; prompt on “Augustus”]

4. Ancient Ugaritic texts refer to this practice as “esretu,” which was apparently performed collectively by the entire village instead of by an individual. In Sikh tradition, this practice is called Dasvandh, and manuals specify that it may include the practice of “sewa.” In traditional Judaism, the so-called “first” example of it is the “ma’aser rishon” and is performed after the terumah, though this practice is general is known as “ma’aser kesafim.” In 1831, a speech by Patrick Lalor started a war in Ireland named for this religious practice; as in England, the Irish church agreed to a “Commutation Act” modifying this practice and setting up a Commission for it. Another historical example of this practice was named for Saladin in 1188 AD, and was designed to fund the Third Crusade. For 10 points, name this religious practice in which one-tenth of one’s income

is given to the church.

ANSWER: TITHES [or word forms, like TITHING; before the giveaway is read, accept descriptive answers like DONATING A PERCENTAGE OF YOUR INCOME TO THE CHURCH, prompt on “taxation” and equivalents; accept TEN-PERCENT TAX, though]

5. The finale of this piece reprises the theme in G minor instead of the expected tonic D minor and consists of two instances where repeated double stops are played in eighth notes in accompaniment of the orchestra. This piece opens with a four-voice fugue, and an F major 12/8 cantilena meter characterizes its middle movement, in which a four-note fragment punctuates overlapping and imitative phrases four times. The close canon opening this piece’s allegro finale marks a return to the tripartite ritornello principle. A trill was added to this piece for didactic purposes in the version appearing in Volume 4 of Suzuki. On a recording with Mozart’s *Turkish* concerto, Jascha Heifetz unusually played this piece by himself, and Jaime Laredo and Jennifer Koh often played it together. Nearly two decades after this piece was written during its composer’s time as Kapellmeister of Anhalt-Kothen, it was transposed into C minor and arranged for multiple harpsichords. For 10 points, name this Bach piece for orchestra and more than one stringed soloist.

ANSWER: BACH’S CONCERTO FOR TWO VIOLINS, Strings and Continuo in D minor [or BACH’S DOUBLE VIOLIN CONCERTO; or BWV 1043; prompt on BACH’S VIOLIN CONCERTO; Bach isn’t needed after he is mentioned in the question]

6. Jonathan Culler wrote an article about this practice that compared it with the “nose-to-the-ground” and “savoring” models proposed by Barthes. An alternative to this method was proposed in the book *Graphs, Maps, Trees*, which argued for using quantitative methods from social sciences to diagram historical literary patterns. Gustave Lanson pioneered the French approach to this method, and Paul de Man explained his first encounter with it in a class by Reuben Brower in his essay “The Return to Philology.” Franco Moretti proposed an alternative, “distant” version of this practice, which originated in a seminar at Cambridge where students were given anonymous poems without any information about the author or context. That seminar became the basis for I. A. Richards’s book *Practical Criticism*, which pioneered this technique that was championed by New Criticism. For 10 points, name this ubiquitous two-word term for a method of analyzing texts asking students to focus exclusively on “the words on the page.”

ANSWER: CLOSE READING

7. This man invited the Salzburger Lutheran Community to settle in his lands, but he often feuded with their leader Pastor Johann Boltzius. He supervised the building of Fort Argyle, and his military victories include the Battle of Gully Hole Creek, where he defended an invasion against Fort St. Simon. He wrote about witnessing prehistoric burial mounds on his long diplomatic mission to Coweta, where he signed a treaty. He used Mary Musgrove as an interpreter when he first met with the elderly chief Tomochichi, who agreed to act as his mediator; in return, this man brought John and Charles Wesley to meet the chief. Together with Lord Percival, this man drafted a charter which granted him a plot of land north of the Altamaha River, over which he served as “resident trustee.” He banned rum and slavery from that colony, which, inspired by his friend Edward Vernon, was set up as a debtors’ haven. For 10 points, name this founder of the British colony of Georgia.

ANSWER: James OGLETHORPE

8. These compounds undergo two nucleophilic substitutions when exposed to cyanogen bromide in the Von Braun reaction. The most widely-used tricyclic antidepressant, amitriptyline, has this functional group. Butyllithium reactivity is often juiced up by a reagent with two of these functionalities, known as TMEDA. The Menshutkin procedure bucks the trend of poor reactivity between these compounds and alkyl halides. A one pot-reaction forming scorpionine involves DABCO catalysis of disulfur dichloride and one of these compounds, known as Hünig’s base. Unlike closely related compounds, these substances do not react with benzyl sulfonyl chloride in the Hinsberg test. These compounds do not contain any acidic hydrogens, and they are produced along with alkenes after the maximum number of exhaustive methylation steps in the Hofmann elimination. Adding one more methyl group to these compounds results in a cation. For 10 points, name these compounds with nitrogen bonded to three non-hydrogen R groups.

ANSWER: TERTIARY AMINES [prompt on AMINES]

9. In 1989, Mark Morris choreographed a version of this opera in which he danced the opposing roles of its two lead female characters. The first act of this opera ends with a chaconne for guitars followed by a “Triumphing Dance” in a palace. In the first scene of its third act, a Jack O’Lantern appears during a witches’ dance after a chorus of witches sing “Destruction’s Our

Delight.” Its third act begins with the chorus “Come Away Fellow Sailors,” sung after the sailors’ commander is deceived by a spirit disguised as Mercury. In this opera’s final scene, its female lead sings the recitative “thy hand Belinda” before mourning “Remember me, but ah! forget my fate” in the lament “When I Am Laid in Earth.” For 10 points, name this Henry Purcell opera about the love between a Roman hero and a queen of Carthage.

ANSWER: DIDO AND AENEAS [or Z. 626]

10. A 1965 book by Arthur Danto was titled after the “Analytical Philosophy of” this idea, and according to Danto’s own analysis 30 years later, was inspired by Carl Hempel’s work on the philosophy of this concept. Johann Gottfried von Herder’s major work on this concept focused on the “innerness” of those involved in it, and was titled *This Too a Philosophy* of this idea. One philosopher advocated a “Baconian” approach to this concept in his major book, *The Idea* of this concept, while a different philosopher argued in his major work that this concept proceeds via the interaction of “productive systems.” Those thinkers are, respectively, R.G. Collingwood and Wilhelm Dilthey. In an essay titled after the “concept” of this idea, Walter Benjamin wrote that “the consciousness of exploding the continuum” of this idea is “peculiar to the revolutionary classes in the moment of their action,” and suggested that Klee’s *Angelus Novus* is an apt representation of this concept. This idea proceeds in cyclical fashion via periodic returns to barbarism according to Giambattista Vico’s *The New Science*. For 10 points each, name this idea, a human discipline concerned with studying the past.

ANSWER: HISTORY

11. One of these texts was authored by a man called Pseudo-Scylax, also known as Scylax of Caryanda, who was employed by the Persian king Darius I. Another of these writings known as the Massaliot was preserved by the poet Avienus in his major tome. This term is used to describe the technique by which triremes in open water would try to outflank the opposing navy and attack them from behind. A more famous example of one of them describes a “marketplace in Azania” called Rhapta and a “Frankincense Country” called the Kingdom of Eleazus, as well as Barygaza in India. That example, written anonymously around 50 CE, is titled after the “Erythraean Sea,” whereas one on the “Euxine Sea” was written by Arrian. For 10 points, give this originally Greek term for a seafarer’s manual which details the sights witnessed along the shore of a given body of water, a term which literally means “sailing around.”

ANSWER: PERIPLUS [or PERIPLUS, prompt on translations of the term, such as “sailing around” or “circumnavigation” or “seafarer’s manual;” also prompt on “geographies” or closely related answers prior to the word “trireme”]

12. The Stentz algorithm is a dynamic variant of an earlier algorithm to accomplish this task in which the cost function can vary with time. This task can be carried out via a dynamic programming algorithm that operates on a series of states in a Markov model, called the Viterbi algorithm. Another algorithm for accomplishing this task relies on a heuristic function to estimate future costs; that algorithm, which takes the previous nodes visited into account and uses a priority queue to keep track of nodes yet to be visited, is called A-star. The first single-source algorithm for doing this task was a greedy algorithm that always chooses the next node with the smallest tentative distance. For 10 points, identify this task accomplished by Dijkstra’s algorithm, which consists of minimizing the distance between source and destination nodes on a graph.

ANSWER: finding the SHORTEST PATH [accept equivalents like PATH PLANNING or finding the MOST PROBABLE SEQUENCE OF STATES, prompt on “search”]

13. This author described the “Hour of the Cashbox,” the “Hour of the Ministers,” and “Hour of Assignments,” making up a political leader’s morning routine in a section of a book titled “The Throne” that is followed by the section “It’s Coming, It’s Coming.” This author included twelve vignettes of scenes labeled “photographs” in one book’s “Daguerreotypes” chapter, which ends with a section titled “cassette” that records the voice of an anonymous Iranian discussing the career of Mohammad Mosaddeq. This author took the perspective of minor princes and the royal pillow-bearer to detail the end of Haile Selassie’s reign in his book *The Emperor: The Downfall of an Autocrat*, and analyzed the overthrow of Mohammad Reza Pahlavi in his book *Shah of Shahs*. Adam Hochschild notably labeled his work “magical journalism,” and he is the most frequently translated contemporary author from his country after Wislawa Szymborska. For 10 points, name this Polish journalist who legendarily claimed to have witnessed twenty-seven revolutions.

ANSWER: Ryszard KAPUŚCIŃSKI

14. During one incident in this conflict, a first-year law student named Zohra Drif used her sundress to smuggle a beach bag full

of bombs into the Milk Bar. An insurrection led by Joseph Ortiz and an aborted mission known as Operation Resurrection hampered one force in this conflict, which was chronicled in the book *A Savage War of Peace* by Alistair Horne. The opposing army forcibly recruited farmers from the countryside, sometimes known as fellaghas, to participate in the Philippeville Massacre. Secret peace talks were interrupted by the “General’s Putsch” led by a group of retired officers, though the exodus of auxiliary troops known as harkis was eventually ensured by ratification of the Evian Accords. The OAS opposed the designs of Ahmed Ben Bella and the FLN in this conflict. For 10 points, name this conflict which began in 1954 and resulted in the independence of a French colony.

ANSWER: ALGERIAN War for Independence [accept descriptive answers indicating that ALGERIA is fighting a war for independence from France]

15. This artist may have depicted his daughter in *The Needlewoman*, which is often compared to his other portrait with an unattributed sitter, *The Lady with a Fan*. The National Gallery in London has his best-known portrait of his most frequent patron, who appears life-size and is oddly wearing a silver and brown outfit that gives the painting its nickname as the “silver” portrait of its sitter. This artist’s most famous portrait is housed in the Palazzo Doria Pamphilj in Rome, and he painted equestrian portraits for the Palacio del Buen Retiro of the Count-Duke of Olivares and Balthasar Charles. He did a portrait of a young *morisco* artist who accompanied him on his second trip to Rome, in preparation for painting the portrait of a man who is shown sitting on an ornate red armchair in front of red drapes while wearing a red cape. For 10 points, name this artist who painted portraits of Juan de Pareja and Pope Innocent X, a Spaniard who served as Philip IV’s court painter.

ANSWER: Diego VELÁZQUEZ

16. Early in his career, this economist worked at Carnegie Mellon with Leonard Rapping to create a model which attempted to explain the so-called “money illusion” in labor supply. He used Edmund Phelps’ island parable in his paper on the “Neutrality of Money” to model the relationship between money supply and changes in output in a simplified economy. In the title of another paper, he asked “Why Doesn’t Capital Flow from Rich to Poor Countries?,” a question that’s known as his paradox or puzzle. He showed that the predicted relation in the Phillips Curve cannot be used to forecast the effect of new monetary policies, because macroeconomic models do not adjust to the changing behavior of agents which accompany changes in economic policy. That result is his namesake “Critique” of macroeconomics. For 10 points, name this member of the Chicago School who extended John Muth’s hypothesis of rational expectations.

ANSWER: Robert Emerson LUCAS, Jr.

17. Since this deity was said to have rewarded any offerings, coins were often tossed into wells in a possible precursor of the similar modern custom. This deity angrily gave a cured leper his leprosy back because he disobeyed the order to bathe with another man also suffering from leprosy. This deity’s birth at sunrise coincided with a pillar of flame that shot up to the heavens. This goddess, whose name means “exalted one,” invented both whistling and a poetic combination of weeping and singing occasioned by her lament for her deceased son, known as keening. Julius Caesar compared the role of this goddess to that of Minerva in his *Commentaries on the Gallic Wars*. This goddess was celebrated in a festival that marked when ewes first began to produce milk, signaling the start of spring, known as Imbolc. This daughter of the Dagda was syncretized with a slave from Kildare who was baptized by Patrick. For 10 points, name this pagan goddess of wisdom, poetry, and the hearth who later became a female patron saint of Ireland.

ANSWER: BRIGID [or BRIGIT; accept Saint BRIGIT of Kildare, even though all of the clues are about the pagan goddess]

18. This character gets his clothes stuck on a nail while climbing through a fence to deliver his uncle’s love letters to his uncle’s married mistress Mrs. Patterson. In the novel’s last scene, this character starts crying on the way back from church on Easter Sunday when the carriage drives counter-clockwise around a square. He becomes annoyed when another character wears perfume blocking her natural scent, which he associates with the smell of trees. This character is first seen on his thirty-third birthday searching for a lost quarter in a field outside a golf course at the behest of Luster, and he is haunted by the memory of his sister’s muddy underwear when she climbed a tree to watch Damuddy’s funeral. This narrator of a section set on “April Seventh, 1928” shifts disconcertingly between past and present as he agonizes over his sister Caddy’s disgrace. For 10 points, name this mentally-challenged member of the Compson family who narrates the first section of *The Sound and the Fury*.

ANSWER: BENJY Compson [prompt on “Compson”]

19. This world leader related his memoirs to Wilfred Burchett, who published them in a book titled *My War with the CIA*. He explained his stance on the Cold War by quipping “when two elephants are fighting, an ant should step aside.” He came under fire for being controlled by his wife Monique Izzi and her family. A play about the “Terrible but Unfinished Story” of this leader was written by Helene Cixous. In April 2002, he became probably the first head of state to start a personal website and blog, where he told sex stories and often referred to his subjects as “the Little People.” He also directed several films, including *An Ambition Reduced to Ashes*. After founding the People’s Socialist Community in 1955, he voluntarily turned over power to his father and became prime minister. Later, he set up a government-in-exile in Beijing after being ousted from power by Lon Nol. For 10 points, name this man who abdicated for a second time in 2004 and left the throne of Cambodia to his son, who is also from the house of Norodom.

ANSWER: Norodom SIHANOUK [or Preah Bat Samdech Preah Norodom SIHANOUK]

20. A strain of *Coccobacillus* was completely ineffective against one species of these animals, but killed every member of a different one, during Felix d’Herelle’s 1912 experiments in Argentina. The sole member of the *Martialinae* subfamily of these animals, *Martialis heureka*, was so named because it looked weird enough to have come from Mars and because its discovery was sudden. One species of these animals has the lowest number of diploid chromosomes of any organism ever, at $2n = 2$. A ton of attention has been showered on the gene gp-9, or general protein-9, which is present in polygyne but absent in monogyny groups in one species of these animals. A predator of one species of these animals performs “bivouac checking” in a notable example of kleptoparasitism. E.O. Wilson, the world’s leading authority on these animals, once quipped that “Karl Marx was right, socialism works, it is just that he had the wrong species.” These animals have elbowed antennae and compound eyes. For 10 points, name these “superorganisms” from order *Hymenoptera*, whose poison glands contain formic acid.

ANSWER: ANTS [or FORMICIDAE; prompt on reasonable things; like APOCRITA and HYMENOPTERA before mentioned]

TIEBREAKER

21. One of this author’s characters misleads a police investigation by submitting an anonymous tip that an out-of-town motorcycle gang was responsible for a murder. This author created a fictional family in which Felix is renamed “Lamentations of Jeremiah” and the four-year-old Germaine is a psychic. In one of this author’s stories, the phrases “Man the flying saucers” and “Done By Crazy Woman Driver” are written on a golden jalopy. In one novel by this author, Legs Sadovsky and the Wirtz sisters form the “Foxfire” gang to put abusive men on trial. Gideon crashes a plane full of bombs into the title family’s mansion in her novel *Bellefleur*. She included *Expensive People* in a series of novels set in Eden County called the “Wonderland Quartet,” that includes novels titled *The Garden of Earthly Delights* and *them*. This author wrote a historical novel about Marilyn Monroe titled *Blonde*, and a short story in which Connie is coerced into leaving her house and taking a ride in the devilish Arnold Friend’s car. For 10 points, name this prolific author who wrote the story “Where Are You Going, Where Have You Been?”

ANSWER: Joyce Carol OATES

BONUSES

1. The second edition of this book added a chapter titled “Census, Map, Museum,” which argued that the administrative tools of the colonial state laid the foundation for its own destruction. For 10 points each:

[10] Identify this work of Marxist social analysis, which concerns the rise of nationalism in colonized territories such as Latin America and Indonesia. It was written by Benedict Anderson.

ANSWER: IMAGINED COMMUNITIES: Reflections on the Origin and Spread of Nationalism

[10] A central thesis in *Imagined Communities* is that nationalism was abetted by the rise of this phenomenon, which Anderson defined as the “explosive... interaction between a system of production... a technology of communication... and the fatality of human linguistic diversity.”

ANSWER: PRINT-CAPITALISM [do not prompt on any partial answer]

[10] An extended example of the development of nationalism in *Imagined Communities* concerns this nation, whose small noble minority led by such notables as Lajos Kossuth and Sandor Petofi began the process that eventually gave this nation some independence under the dual monarchy structure.

ANSWER: HUNGARY [or MAGYARORSZAG]

2. From 1848 to 1854, this policy led to the annexation of several dependent Hindu states including Satara, Jaitpur, and Nagpur, and it was replaced by the doctrine of Paramountcy in 1858. For 10 points each:

[10] Name this policy put forth by the governor-general of India, Lord Dalhousie, in 1848 which said that the British could veto any Hindu ruler’s attempt to name an heir through adoption, meaning that the British could take over rule in states without legitimate male heirs.

ANSWER: Doctrine of LAPSE

[10] The seizure of Oudh under the Doctrine of Lapse led to this Indian revolt in 1857, which was also caused by some Enfield rifle cartridges greased with animal fat.

ANSWER: SEPOY Mutiny/Rebellion

[10] By the time the Sepoy Mutiny broke out, Lord Dalhousie had stepped down. The new governor-general of India appointed by the Crown was the son of this man, who succeeded the Earl of Liverpool as British Prime Minister but only served for four months.

ANSWER: George CANNING

3. He described the protagonist being raped by his father as a five-year-old in his first novel *Never Mind*. For 10 points each:

[10] Name this contemporary British novelist, the son of a Cornish baron, who has shot to critical fame with his biting, five-novel Patrick Melrose series about the aristocracy that includes *Mother’s Milk* and *At Last*.

ANSWER: Edward ST. AUBYN

[10] It seems to be a universal rule that all reviews of Edward St. Aubyn must compare him to this other British satirist who wrote *A Handful of Dust* and *Scoop*.

ANSWER: Evelyn WAUGH

[10] *At Last* takes place on the day of this kind of event. A comic scene in *Middlemarch* describes one of these events that the wealthy Peter Featherstone organized for himself, and in *The End of the Affair*, Bendrix plans this event for Sarah Miles deliberately against her wishes.

ANSWER: FUNERAL [accept a MOTHER’S FUNERAL]

4. The Cholodny-Went model was first theorized in 1927 to account for this phenomenon. For 10 points each:

[10] Name this movement, mediated by autophosphorylating protein kinases in higher plants, that causes plant parts to move towards or away from light.

ANSWER: PHOTOTROPISM [accept word forms]

[10] Phototropism happens because the cells that are the farthest from light produce these hormones, which elongate them. These most famous plant hormones cooperate and compete with cytokinins.

ANSWER: AUXINS

[10] Tropic movements happen in the direction of stimuli, unlike these other kinds of plant movements, which only depend on the stimulus intensity. Some of them, like the upward bending of leaves, don’t have tropic counterparts.

ANSWER: NASTIC movements [or word forms, like the suffix -NASTY]

5. An infant was fed the innards of lions and pigs after Peleus left him at a certain place so that he could benefit from this experience. For 10 points each:

[10] Identify this common experience shared by Actaeon and every person who convened in a cave on Mount Pelion. Achilles and Patroclus were both undergoing this experience when they first met.

ANSWER: they were STUDENTS OF CHIRON [or CHIRON'S DISCIPLES; anything indicating they were BEING TAUGHT BY CHIRON]

[10] Chiron calmed the obviously distraught hounds responsible for Actaeon's death by performing this action.

ANSWER: BUILDING A STATUE of Actaeon [accept synonyms; anything that indicates that he FASHIONED A LIKENESS of Actaeon]

[10] This non-student of Chiron put a decisive end to the school by accidentally shooting the centaur with one of his poisoned arrows, during a tragic incident that occurred on his way to capture the Erymanthian boar for his fourth labor.

ANSWER: HERCULES [or HERACLES]

6. Images appearing in these works include a plaster cast of Cupid with its arms missing, a peppermint bottle, and a pot of primroses. For 10 points each:

[10] Name this genre of paintings by a specific artist that includes *Rideau, Cruchon et Compotier*, the most expensive painting of its type ever sold at auction.

ANSWER: CEZANNE'S STILL LIVES [prompt on "still lifes" from doofuses who don't pay attention]

[10] Cezanne often painted baskets of this fruit and apocryphally claimed he would "astonish Paris with" one. This fruit appears in place of the main figure's face in Magritte's *The Son of Man*.

ANSWER: APPLE

[10] Cezanne painted a pyramid of these objects that placed them closer to the viewer than any other Cezanne still life. Dali stands next to a giant one formed by the bodies of seven naked women in the photograph *In Voluptas Mors*.

ANSWER: SKULLS

7. In an apocalyptic story set in this country, Lynn stops at a dingy gas station to escape the airborne chemicals released from a factory explosion. For 10 points each:

[10] Name this home country of Henrietta Rose-Innes and Olive Schreiner, which is the setting of *Mine Boy* by Peter Abrahams and Rian Malan's memoir *My Traitor's Heart*.

ANSWER: Republic of SOUTH AFRICA

[10] The aforementioned story "Poison" won Henrietta Rose-Innes this prize in 2008. Annually given to the best English-language African short story, this prize is sometimes seen as the African equivalent of the Booker.

ANSWER: CAINE Prize for African Writing

[10] The Caine Prize is partially funded through the Nobel winnings of this author, who recently immigrated to Australia and wrote a novel about the hare-lipped gardener Michael K.

ANSWER: J.M. COETZEE [or John Maxwell COETZEE]

8. The Bergeron-Findeisen theory of this process holds that it occurs as a result of vapor deposition of water onto ice crystals. For 10 points each:

[10] Identify this process, which occurs when those ice crystals become sufficiently heavy to fall to earth, possibly melting in the process.

ANSWER: PRECIPITATION [accept SNOW or RAIN]

[10] The Bergeron-Findeisen theory is the basis for this process, an attempt to increase precipitation by dispersing a material such as silver iodide that is intended to boost ice crystal formation.

ANSWER: cloud SEEDING

[10] Adiabatic cooling and forced lifting are two of the mechanisms that can cause this type of precipitation, in which a physical barrier such as a mountain stimulates the formation of cloud nuclei.

ANSWER: OROGRAPHIC precipitation

9. He wrote a series of nine stories, including "Adventures in Contentment," under his pseudonym David Grayson. For 10

points each:

[10] Name this journalist who served as Woodrow Wilson's press secretary during the Paris Peace Conference and wrote Wilson's official biography. He also wrote the book *Following the Color Line*.

ANSWER: Ray Stannard BAKER

[10] Before leaving to work at American Magazine, Baker worked at this pioneer muckraking magazine, which serialized Ida Tarbell's *History of the Standard Oil Company* in 1904.

ANSWER: McCLURE's Magazine

[10] Another close associate of Baker was Lincoln Steffens, who published his articles in the collection *The Struggle for Self-Government* and in this earlier 1904 collection. This collection reports on activities of corrupt political machines in America, in pieces like "Tweed Days in St. Louis."

ANSWER: The SHAME OF THE CITIES

10. The first five books of this work are dedicated to explaining how to avoid errors deriving from the sense, imagination, understanding, inclinations, and passions, respectively. For 10 points each:

[10] Identify this work whose final book critiques what it calls "the most dangerous error of the ancients," namely the Aristotelian position that there are secondary causes in nature. Several years after its publication, its author appended to it sixteen *Eclairissements* or *Clarifications* to address various objections.

ANSWER: On [or Concerning] the SEARCH AFTER TRUTH [or De la RECHERCHE DE LA VERITE]

[10] *The Search After Truth* is the most famous work of this 17th century French philosopher, whose aforementioned critique of Aristotle led him to espouse the idea that all events are directly caused by God, occasionalism.

ANSWER: Nicolas MALEBRANCHE

[10] Malebranche carried out a protracted battle over the issue of grace with this Jansenist theologian, who attacked Malebranche's occasionalism in his own *On True and False Ideas*, and was a great promoter of Cartesian philosophy.

ANSWER: Antoine ARNAULD

11. This department is known for containing a number of pre-Colombian Mayan sites including El Mirador and its basin to the north, Aguateca, and Tikal. For 10 points each:

[10] Name this department which comprises the entire northern portion of Guatemala, and has its capital at Flores.

ANSWER: PETÉN Department [El Peten]

[10] To the west of the Peten is the Usumacinta River, which separates Guatemala from this Mexican state. Bounded to the north by Tabasco, and to the west by Oaxaca and Veracruz, this state is home to the ruins of Palenque.

ANSWER: CHIAPAS [tjapas, Free and Sovereign State of Chiapas]

[10] To the east of the Peten is this small nation once known as the British Honduras which has urban centers at cities like San Ignacio and Belmopan.

ANSWER: BELIZE

12. This composer included a pre-recorded tape of political speeches in his orchestral piece *Slava!* For 10 points each:

[10] Identify this American composer of the *Jeremiah*, *Age of Anxiety*, and *Kaddish* symphonies, better known as a conductor and director of the New York Philharmonic.

ANSWER: Leonard BERNSTEIN

[10] This French-German pianist was criticized for performing in Nazi-occupied countries, though he is thankfully better remembered for recording the complete piano works of Ravel and Debussy. His memory was reputedly so good that he never practiced; only replaying pieces in his mind.

ANSWER: Walter (Wilhelm) GIESEKING

[10] Bernstein conducted and Giesecking performed on many releases on the Masterworks library of this American record label, which once took over the responsibility of recording classical music from its subsidiary Epic.

ANSWER: COLUMBIA Records

13. Answer these questions about the last line of Emily Dickinson poems, for 10 points each.

[10] In the final stanza of this poem, the speaker claims a span of centuries "feels shorter" than the day she realized that the "Horses Heads" on Death's carriage "were toward Eternity."

ANSWER: "BECAUSE I COULD NOT STOP FOR DEATH" [or 712; prompt on "The CHARIOT"]

[10] At the end of “I’m nobody! Who are you?”, Dickinson mocks the rules of etiquette that force you “like a frog, / to tell your name the livelong day” to this type of person.

ANSWER: “an ADMIRING BOG”

[10] At the end of “A narrow fellow in the grass”, the speaker admits to experiencing “a tighter breathing” whenever she encounters a snake, which Dickinson describes as this sensation “at the bone.”

ANSWER: “ZERO”

14. Answer stuff about capital cities during the Abbasid Dynasty, for 10 points each.

[10] For twelve years under al-Hasan, this city was the first Abbasid capital. The caliph Ali had been assassinated with a poison sword while praying in the great mosque at this city, which became a center of Islamic theology, and lends its name to the earliest style of handwritten script used to record the Quran.

ANSWER: KUFA [or al-KUFAH]

[10] This city became an alternate capital of the Abbasids from 836 to 892 AD, after the caliph al-Mustasim moved his Turkish soldiers from Baghdad to here. A period of political unrest, starting in 861 AD, which saw four caliphs rule in nine years is called the “Anarchy” at this city.

ANSWER: SAMARRA

[10] In 909, the Tunisian city of Mahdia was set up as an initial capital by this rival caliphate, which soon conquered Egypt and built a capital at Cairo. They claimed descent from a daughter of Muhammad.

ANSWER: FATIMID Caliphate or Dynasty

15. Walborn et al. were the first to realize this concept using polarized photons. For 10 points each:

[10] Identify this idea, which allows the recording of path information of a photon, after which the path information is removed to recover the original interference pattern.

ANSWER: QUANTUM ERASER

[10] The quantum eraser is a variation of this classic experiment which demonstrated the wave nature of light by creating an interference pattern from a monochromatic beam passing through its namesake apertures.

ANSWER: DOUBLE-SLIT experiment [accept YOUNG’S EXPERIMENT]

[10] Marlon Scully, one of the formulators of the theory of the quantum eraser, has expanded that experiment to include the delayed-choice experiment originally proposed by this physicist. This man introduced the S-matrix formalism to scattering theory and authored the influential textbook *Gravitation* with Thorne and Misner.

ANSWER: John Archibald WHEELER

16. Answer the following about Christian Science, for 10 points each.

[10] This author of *Science and Health with Key to the Scriptures* is credited with founding Christian Science, and set up the first Mother Church in Boston.

ANSWER: Mary Baker EDDY

[10] Though she denied being his disciple, Eddy wrote several letters to this doctor of hers based in Portland, Maine, who founded the New Thought Movement. In the 1850s, he developed a method of healing people through positive thought and hypnosis, which later inspired the work of Warren Felt Evans.

ANSWER: Phineas Parkhurst QUIMBY

[10] Mary Baker Eddy coined the phrase for the “malicious” form of this practice, which describes the evil force used by haters of Christian Scientists to “assassinate their minds” by injecting negative energy.

ANSWER: ANIMAL MAGNETISM [accept only those two words]

17. Name these American museums that have commissioned expansions from Renzo Piano, which narrows the options to every major museum in the United States. For 10 points each:

[10] Piano designed the Modern Wing of this museum in Grant Park with an extended sunshade made of aluminum that has been dubbed “The Flying Carpet”. Its collection includes *Bedroom in Arles* and *Nighthawks*.

ANSWER: ART INSTITUTE OF CHICAGO [prompt on “AIC”]

[10] This New York museum will move its entire collection from its current building on Madison Avenue by Marcel Breuer to a new, nine-story location in the Meatpacking District that Piano will finish in 2015. This museum is best-known for its namesake “biennial” exhibition showcasing works by new American artists.

ANSWER: WHITNEY Museum of American Art

[10] Piano created a “modernist” entrance building during his renovation of this New York museum whose original building was designed by Charles McKim. Its collection is renowned for its illuminated manuscripts, including the metalwork covers of the Lindau Gospels.

ANSWER: MORGAN LIBRARY and Museum

18. Answer the following about Robert II of France, for 10 points each.

[10] This king, who feuded with Pope John XV later in his rule, became the founder of the Capetian Dynasty in France after succeeding the last Carolingian king. Robert II was his son, with whom he co-ruled for a time.

ANSWER: HUGH Capet [or HUGUES, or Hugh the Great or Hugo Magnus]

[10] Hugh’s decision to rule with Robert is written about by this monk, whose book *Miracles de Saint-Benoit* contains a section translated as “On the First Millennium,” which chronicles the panic and fear over Armageddon common in France around the year 1000.

ANSWER: Ralph GLABER [or Rodulfus Glaber]

[10] Robert was educated in Reims at the school run by Gerbert of Aurillac, who became the second pope to take this name, and was the first pope from France.

ANSWER: SYLVESTER

19. Theophile Gautier established the tragic myth around this character in his review of a fake scene involving this character titled “Shakespeare at the Funambules.” For 10 points each:

[10] Name this character who was notably interpreted in a “realist” portrayal by Paul Legrand as a pitiful, comic underdog figure. He is usually dressed in a loose white shirt with large buttons.

ANSWER: PIERROT

[10] Pierrot became a pivotal figure in French 19th century theatre, but first appeared as a stock character in this Italian form of theatre along with the characters Colombine and Harlequin.

ANSWER: COMMEDIA DELL’ARTE

[10] The most famous Pierrot was this French mime immortalized by Jean-Louis Barrault in Marcel Carné’s *Children of Paradise*. He portrayed Pierrot as a tragic, mythic figure in his performances at the Théâtre des Funambules, and his son Jean-Charles was also a mime.

ANSWER: Jean-Gaspard DEBURAU [or DEBUREAU]

20. In the most common way of looking at this process, the work done between going from a neutral vacuum to a neutral solvent is taken to be zero. For 10 points each:

[10] Identify this process whose thermodynamics are often analyzed using the Born model, which describes ions as charged spheres and the solvent as a continuum with an unchanging dielectric constant.

ANSWER: ion SOLVATION

[10] One phenomenon that weakens the Born model of solvation is the presence of these intermolecular interactions between highly electronegative elements like oxygen and the namesake lightest element.

ANSWER: HYDROGEN BONDING [or H BONDING]

[10] More accurate models of solvation sometimes take into account this measure devised by Lee and Richards, expressed in Angstroms squared, that quantifies how much room the ion has for the solvent.

ANSWER: ACCESSIBLE SURFACE AREA [or ASA; prompt on SURFACE AREA]

EXTRA BONUS

21. A postcard reading “Traitor, you left [this art movement]!” was sent to Nam Jun Paik by George Maciunas, who wrote its manifesto. For 10 points each:

[10] Name this diverse collective of artists that arose in the 1960s, unified under a name originating from the Latin for “fluid” or “flowing.”

ANSWER: FLUXUS

[10] The Fluxus movement was exhaustively documented in the archive maintained by this German artist, who pioneered the process of mutilating posters to create “de-collages,” and built the Cycle Black Room installation, the first artwork to incor-

porate a television set.

ANSWER: Wolf VOSTELL

[10] A Fluxus artist with this surname devised the do-it-yourself purchasable artwork Water Yam. The lyrics to the musical *The Threepenny Opera* were written by an author with this surname.

ANSWER: BRECHT [Bertolt Brecht and George Brecht]