

## Chicago Open 2014: A Redoubtable Coupling of Editors

Packet by New Year's Evolution ("The Viper" Jordan Brownstein, "The Natural Boy" Mike Cheyne, "The Game" Aaron Rosenberg, "The Animal" Sinan Ulusoy)

Edited by Austin Brownlow, Andrew Hart, Ike Jose, Gautam & Gaurav Kandlikar, and Jacob Reed

### Tossups

1. The exposition of the first movement of this composer's first String Quintet in A Major ends with a surprise scherzando section in F-sharp minor. This composer's String Quartet No. 2 in A Minor is bookended by A-major sections derived from his song "Ist es wahr?" One of his pieces begins with two flutes playing E and G sharp, then the winds playing the chords "B major. A minor. E major." This composer invented a "light and airy" style that he used in scherzos, like one in G minor inspired by the Walpurgisnacht scene in Goethe's *Faust*. The last movement of that piece by this composer quotes the "And He shall reign for ever and ever" theme from the "Hallelujah Chorus." One of his pieces uses a descending major ninth to depict the braying of the donkey head of Bottom. For 10 points, name this precocious German Romantic composer of an Octet in E-Flat Major and an overture to *A Midsummer Night's Dream*.  
ANSWER: [Jakob Ludwig] Felix Mendelssohn [Bartholdy]
2. This man allegedly placed a prisoner in a cask to see if the soul would escape through a hole at the top upon death, and disemboweled two dinner guests, one of whom hunted and one of whom rested, to see if resting aided digestion. Those accusations against this man appeared in the *Chronica* of Salimbene di Adam, who also told of how this man lowered his whole palace to test the astrologer Michael Scot's calculations of the distance to heaven. This ruler, who lost territory in the treaties of San Germano and Ceprano, settled 20,000 Sicilian Muslims in Lucera and peacefully gained Jerusalem in a treaty with Al-Kamil. This ruler, who was the target of an apostolic letter by Innocent IV at the Council of Lyon, married Yolande of Jerusalem and clashed with Honorius III and Gregory IX over his failures in the Fifth Crusade. "Stupor mundi," or "wonder of the world," was the nickname of, for 10 points, what oft-excommunicated Holy Roman Emperor from 1220 to 1250, who led the Sixth Crusade?  
ANSWER: Frederick II [prompt on "Frederick"]
3. One poem in this collection tells "guests" that they have "now seen Love's corpse-light shine" and relates an intellectual game called "Hiding the Skeleton." In this collection's penultimate poem, the main female figure cries in the middle of the night and says "this is my breast: look in!" This poetry collection, which includes "He found her by the ocean's moaning verge" and "At dinner she is hostess, I am host," begins with a poem in which the speaker imagines a sword that severed "sculptured effigies...upon their marriage-tomb." This collection begins with the line "By this he knew she wept with waking eyes." It was written after the poet's wife Mary Ellen, the daughter of Thomas Love Peacock, had an affair with the painter Henry Wallis. This collection, whose poems consist of an unusual 16 lines each, was published 20 years before its author's next poem, *The Lark Ascending*. For 10 points, name this sonnet sequence written by George Meredith.  
ANSWER: Modern Love

4. This thinker, who made a distinction between viewpoints he termed hegemonic, negotiated, or oppositional, proposed that the youthful counterculture existed in between traditional notions of “masculine” and “feminine” in a book co-written with Tony Jefferson. This thinker abandoned a dissertation on Henry James after coming to Oxford as part of the Windrush generation. In 1973, this thinker wrote an essay presenting a four-stage theory of communication consisting of production, circulation, use, and reproduction. This thinker, who served as the founding editor of a journal he created with E.P. Thompson and Raymond Williams called the *New Left Review*, proposed that audiences received television programming through a process of communication called “encoding and decoding.” For 10 points, name this recently deceased Jamaican-born cultural theorist, a former director of the Centre for Contemporary Cultural Studies at the University of Birmingham.

ANSWER: Stuart [McPhail] **Hall**

5. One form of this technique is used for reactions in which the binding constant is less than ten-to-the-ninth inverse molar, and follows a titration-like stepwise addition of a ligand to produce a sigmoidal curve for the variable of interest. Another form of this technique, which is useful in analyzing point defects and phase transitions in metals, involves passing an oscillating current. In that “AC modulation” approach for this technique, the phase shift for the variable of interest is related to relaxation time for three objects. In addition to those variants, it can also be performed in a “differential scanning” type in which both the analyte and a reference sample see their temperature change at a constant rate. It is performed in closed systems in which no matter is exchanged with the environment, and is conducted at constant temperatures or pressures. For 10 points, identify this technique of measuring the heat evolved in a reaction that can be carried out in a “bomb” device.

ANSWER: **calorimetry** [accept **modulation calorimetry** or **isothermal titration calorimetry** or **differential calorimetry**]

6. Crystallographic defects that induce changes in electrical signals are at the heart of the VAN method for performing this task. An algorithm designed for this task takes so-called L values as inputs and searches for time intervals called TIPs. W.H. Bakun and A.G. Lindh’s Parkfield experiment was a failed attempt at doing this task, which is the goal of the the M8 algorithm. A method for doing this task based on abnormal radon emissions was used by Italian scientists who were prosecuted in L’Aquila when their efforts reached a false conclusion. A power-law function is at the heart of the Accelerating Moment Release theory, which Bowman developed as part of a theory for this task. This task should theoretically be possible by finding regions in rock where strain has built up before a so-called “elastic rebound.” For 10 points, name this task that would have made the Loma Prieta disaster foreseeable, and which might be possible by noticing anomalous animal behavior.

ANSWER: **earthquake prediction** [accept equivalents]

7. Among the works of intellectual thought discussed in this book are the sociological treatise *Cannibals All!* and a long poem praising Guillaume Cale’s exploits during the Jacquerie. Its other sections concern the travels of John Trowbridge, as well as the personal experiences of Charlotte Forten. Its introduction compares humans’ capacity for destruction to a scene from a Disney movie in which a sea slug eats another sea slug. The diaries of Kate Stone and Mary Chesnut are discussed in this book’s chapter on women writers. This book was responsible for sparking academic interest in the novels *The Invisible Empire* and *A Fool’s Errand*, which portray the atrocities of certain government policies. This study takes its title from “Maryland, My Maryland” and includes chapters on Grant’s memoirs and the speeches of Abraham Lincoln. For 10 points, name this book, subtitled “Studies in the Literature of the American Civil War,” which was written by Edmund Wilson.

ANSWER: **Patriotic Gore**: *Studies in the Literature of the American Civil War*

8. A specialized form of this action involving the fingers is central to the *Shiva Swarodaya* or *Swara Yoga* text, which associates this action done on the left side with the *Ida nadi* and this action done on the right side with the *Pingala nadi*. *Sama vritti* is the practice of doing the *purak* and *rechak* parts of this action in equal time, which may be elongated with a *kumbhak*, or “pot,” stage. The “extension of the life force,” or *pranayama*, is a term for a group of techniques for this action, one of which, “victory,” or *ujjayi*, produces an oceanic sound. In Eastern Orthodox Hesychast practices, regularizing this action accompanies the recital of the Jesus Prayer. The Hebrew phrase “*nishmat chayim*” describes the first instance of God performing this action that, in John 20:22, Christ performs on the apostles before saying “receive ye the Holy Ghost.” For 10 points, name this action that causes the first man to come alive after God does it into Adam’s nostrils.

ANSWER: **breathing** [accept word forms; accept **inhaling** or **exhaling** or word forms thereof]

9. Two answers required. While commanding the army of one of these rulers, Ruricius Pompeianus was killed fighting the army of the other. The elder of them married the other’s sister and later killed her by having her suffocated in an overheated bath. In a conflict, one of these rulers crossed the Cottian Alps and attacked Segusium when moving against the other. During the war between these two rulers, one offered his sister to Licinius to form an alliance before embarking on a campaign that captured Verona. The largest building in the Roman Forum is a basilica named for these two rulers. After one of them drowned in a chaotic retreat across the Tiber River, the other sent his head to Carthage as proof that he had died. Before one of these men defeated the other, he saw a vision with the words “*in hoc signo vinces*” appearing next to a cross of light. For 10 points, name these rival emperors of the tetrarchy who squared off at the Battle of the Milvian Bridge.

ANSWER: **Constantine the Great** [or **Constantine I**; accept **Saint Constantine**; prompt on “Constantine”] and **Maxentius** [or Marcus Aurelius Valerius **Maxentius** Augustus]

10. A character in this film is thrown out of the restaurant “Le Rouge Gorge,” which can mean either “The Red Breast” or the “The Red Throat.” The older brother of the director of *Grand Illusion* was suddenly cast in this film after one actor suddenly had to flee the country. Its first part is called the “Boulevard of Crime,” which refers to the neighborhood where most of the characters work. This movie ends with a count killed at a Turkish bath and Baptiste unable to catch up to the female protagonist after being swept away by a crowd at Carnival. Many of the extras in this film were Resistance agents using it as their daytime cover, and the film had to be split into two parts because of a 90 minute cap on films imposed by the Vichy regime. Its protagonist is Garance, a woman loved by a mime, an actor, a thief, and an aristocrat. For 10 points, name this 1945 film directed by Marcel Carné about the four men who love a Parisian courtesan.

ANSWER: *Les* **Enfants du Paradis** [or **Children of Paradise**]

11. A woman in this text dreams that a man covered in goat skin tells her about the names of her children. Another dream sequence leads a character to identify “Huckster Heddin” in this text. It also contains an old woman’s complaint that a pile of feed was not moved indoors and a boy seeing a firebrand-wielding horseman in the sky. After its title character’s friend is given a dog that can tell friend from foe, that friend and Kolskegg slay a throng of attackers, leading them to be banished for three years. Early in this text, Thiostrolf kills Thorwald after he abuses his wife Hallgerda. In its last section, a chant about the “Woof of War” is sung during a battle between Christians and pagans. Kari reconciles with Flosi after a shipwreck at the end of this text, whose title character dies when his enemies immolate him. This extended story is one of the first works of literature to use the term Althing. For 10 points, name this Icelandic saga about family feuds, titled for a beardless sage.

ANSWER: **Njal’s Saga** [or *The Story of* **Burnt Njal**; or **Brennu-Njal’s Saga**; accept answers containing **Njal** or **Burnt Njal** such as *The* **Saga of Njal**]

12. Experiments by Nyberg et al. showed that members of the genus *Diphyllobothrium* are able to split the bound form of this protein. Cubilin is the receptor for the bound form of this protein, whose substrate is released by cathepsin L-mediated degradation and transported to tissue by the TCN2 protein. Type II antibodies that bind to a complex of this protein and its substrate block the uptake of that complex by brush border cells. This compound is sometimes called Castle's compound after William Castle, who hypothesized its existence when studying patients suffering from achlorhydria. This protein is the non-radioactive compound administered in the Schilling test. This protein binds to a molecule that is released from salivary haptocorrin by trypsin degradation, and it is secreted by the parietal cells of the stomach. For 10 points, name this protein that helps in the absorption of cyanocobalamin, aka vitamin B12, and whose deficiency is a cause of pernicious anemia.

ANSWER: **intrinsic** factor or compound [accept **IF**; accept **Castle**'s intrinsic compound until mentioned]

13. The *Dionysiaca* states that after the titans smeared chalk on their faces and murdered Zagreus, this kind of event happened. Before another one of these events, Cerambus was turned into a bird by nymphs. In Greek myth, the earliest one of these events is named after the autochthonous Attic king Ogyges. A different one of these events prompts a man to consult to the oracle of Themis beside the river Cephissus. According to Apollodorus, one of these events occurred after the Arcadian son of Pelasgus roasted Nyctimus in preparation for a meal. In a purely Roman story, Baucis and Philemon were turned into an oak and a linden tree while their greedy neighbors were subjected to one of these events. The hubris of Lycaon caused the largest ones of these events to take place, after which a couple survived by hiding out in a chest. For 10 points, name this kind of event that ended the Bronze Age in Greek mythology and was survived by Pyrrha and Deucalion.

ANSWER: **flood** [or **deluge**]

14. This man is mentioned in the title of a painting in which a kneeling woman in the lower right-hand corner places her finger in the mouth of a mannish baby who is strapped to an oval board. In a painting named for "the branch," which contains the words "when man is moved by sovereign grace" on its frame, this man leads a party of four under Virginia's Natural Bridge. He gestures toward two men who unfurl cloth from a chest in the background of a painting in which his actions are compared to a scene in the foreground from the *Book of Isaiah* in which children play near a leopard and a cow stands next to a lion. The backgrounds of Edward Hicks's *Peaceable Kingdom* paintings depict this historical figure, who conveys a friendly, arms-spread gesture while leading an embassy to men in feathered headdresses in another painting. For 10 points, name this man whom Benjamin West painted concluding a "treaty with the Indians."

ANSWER: William **Penn** [accept **Penn's Treaty with the Indians**; or obvious equivalents]

15. In 1927, this man and his followers were turned away from their attempted invasion of Mossoró. Besouro Mangangá shared a profession with this man, who supposedly composed a song about a lacemaker woman and usually wears round glasses in photographs. He and his followers were betrayed, ambushed, and killed in 1938, after which his head was placed on display in Salvador. This man's nickname derives from his alleged ability to fire a lever-action rifle so quickly that it lit up the night. This man and his followers used a long, thin knife nicknamed a "fish-filleter." This lover of Maria Bonita feuded against police, whom he called "macacos" or "monkeys," as the leader of the knife-wielding *Cangaço* [**cahn-gah-SOH**] in the northeastern part of his country. Eric Hobsbawm placed this man alongside Ned Kelly and Pancho Villa as "social bandits." For 10 points, name this folk-hero-cum-outlaw of 1920s and 1930s Brazil, nicknamed for the Portuguese word for "lantern."

ANSWER: **Lampião** [**loom-PYON**] [or Virgulino Ferreira da **Silva**; prompt on "Virgulino"]

16. This work is the first title subject of a 1963 commentary by J.L. Ackrill, who proposed that it was written by iteratively asking questions. Immanuel Kant, who claimed that this work's author "picked up" the title concepts "as they occurred to him," expanded on this work to propose four "pure concepts of understanding" that form the basis of his "table of judgments." Chapters 5 through 9 of this work focus on "ta lagomena," or "things that are said," and expand on a ten-fold list that consists of "when," "where," "having," "doing," "relative," "qualification," "being affected," "being in position," "substance," and "quantity" in its middle section, which is typically called the "Praedicamenta." It is usually found first in a collection in which it is followed by *On Interpretation* and the *Prior* and *Posterior Analytics*. For 10 points, name this first section of Aristotle's *Organon*, whose title refers to groupings of the possible subjects of a predicate.

ANSWER: Categories [or Kategoriai; prompt on "*Organon*" until it is read]

17. These particles are invariant under transformation of center vortices. Collisions of these particles result in excess strangeness at energies above 160 mega-electronvolts. These particles form a hypothetical composite whose ground state has a total angular momentum of three. Two of these particles fuse into a top loop in the dominant production mechanism of the Higgs boson observed at the LHC. Experiments at PETRA determined the spin of these particles via measurement of the Ellis-Karliner angle during three-jet events. These particles belong to the adjoint representation of SU(3) ["S-U-3"]. These particles generate a tensor field whose components are linear combinations of Gell-Mann matrices. Vacuum polarization of the virtual counterparts of these particles creates an anti-screening effect that gives rise to asymptotic freedom. These particles are responsible for the color confinement of quarks. For 10 points, name this group of eight gauge bosons that act as carriers of the strong force.

ANSWER: gluons

18. In 2008, this city's council president was implicated in a sweetheart deal over the relocation of a strip club owned by drug dealer "Fat Face Rick" Hendrix. In 2006, the death of a state's witness in a drug case, who was believed to be murdered but was actually killed by a stray bullet, propelled a councilman from this city to become its first white mayor since its 1960s race riots. In 2008, this city's homeless were targeted by the Red Ribbon Killer, and prosecutor Rupert Bond failed to convict corrupt state senator Clay Davis. In this city's 2006 mayoral election, Clarence Royce was defeated by Tommy Carcetti [kar-KEH-tee], after a scandal in which rogue police commander in this city decided not to enforce anti-drug laws in special zones dubbed "Hamsterdam." For 10 points, name this city, whose early-2000s drug trade was controlled by Avon Barksdale, Marlo Stanfield, "Proposition Joe" Stewart, and Stringer Bell in HBO's *The Wire*.

ANSWER: Baltimore, Maryland

19. During this man's time as a trial lawyer, he represented New York City Board of Higher Education in its unsuccessful effort to retain the "morally unfit" Bertrand Russell as a CCNY professor. This man's lack of personality and voting record earned him the derisive nickname "Frankfurter without mustard." This man claimed that "the Constitution is not a panacea for every blot upon the public welfare" in a dissent arguing that the courts should not "be thought of as a general haven for reform movements." He wrote that "one man's vulgarity is another's lyric" in *Cohen v. California*, which ruled that the First Amendment protected wearing a jacket emblazoned with the words "fuck the draft." This lone dissenter in *Reynolds v. Sims* was skeptical of incorporating the Bill of Rights against the states and of expanding procedural rights for criminal defendants, earning him a reputation as the "great dissenter of the Warren Court." For 10 points, name this justice whose grandfather wrote the only dissent in *Plessy v. Ferguson*.

ANSWER: John Marshall Harlan II

20. In one story by this author, lustful dialogue races down the pages like snakes. The narrator of another of his stories compares the movement of clouds to a “spell of weeping reversed” and compares a character to a “terrified bird, a Fra Filippo angel, rice pudding with milk.” That narrator, who was created by this author, is worried about whether he should continuously invent modes or use the first-, second-, or third-person singular or plural. One of this author’s characters is a reader who becomes so absorbed in his book that he is murdered by its characters. This author of “Continuity of Parks” wrote a story in which Isabelle tricks The Kid into locking himself in the library with a tiger while visiting her aunt’s country house. This author of “Bestiary” wrote a story, whose narrator realizes that the blonde he saw in the park was actually luring a boy into the car of the man in the grey hat, that was turned into a film directed by Michelangelo Antonioni. For 10 points, name this author of “Blow-Up.”

ANSWER: Julio [Florencio] **Cortázar**

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### Bonuses

1. In one scene, this character bequeaths his Browning pistol to Azazello while pretending to be dying, but leaps up again after taking a drink of kerosene. For 10 points each:  
[10] Name this loquacious black cat who escapes from Ivan Nikolayevich by riding a streetcar.  
ANSWER: Behemoth  
[10] Behemoth, along with the pince-nez-wearing choirmaster Koroviev and others, is a companion of Professor Woland in this Mikhail Bulgakov novel.  
ANSWER: The Master and Margarita [or Master i Margarita]  
[10] In *The Master and Margarita*, Berlioz is the head of this sham literary institution in the Griboyedov House, which only allows entry based on whether or not a person has a state-issued identification card.  
ANSWER: MASSOLIT
2. This act was performed by Quetzalcoatl and Tezcatlipoca, who used Cipactli to fashion the world. For 10 points each:  
[10] Give this term from the study of myth for the act of creating the universe from the body of a giant.  
ANSWER: macanthropy [accept word forms such as macanthrope or macanthropism]  
[10] In Norse mythology, the body parts of this giant were used to create the universe. His brain became the clouds and his skull became the heavens.  
ANSWER: Ymir [or Aurgelmir; or Brimir; or Bláinn]  
[10] The devas dismembered this cosmic primordial man-giant to create the visible universe. A hymn in the *Rig Veda* tells of his creation from the cosmic ocean.  
ANSWER: Purusha
3. The instantaneous polarity at each terminal of this device is denoted using the dot convention. For 10 points each:  
[10] Name this device used to "step up" or "step down" voltages and match impedances in AC circuits. Its simplest form contains two mutually coupled inductors called the primary and secondary windings.  
ANSWER: transformers  
[10] Along with eddy currents, this phenomenon is the main source of energy loss in a transformer. Schmitt triggers and noise gates implement this phenomenon to reduce contact bounce.  
ANSWER: hysteresis  
[10] This diminutive, hunchbacked arch-badass of electrical engineering formulated an empirical law of hysteresis loss and developed an equivalent circuit model of transformers and induction motors. This "Wizard of Schenectady" created phasor notation and loved party tricks like smiting trees with artificial lightning.  
ANSWER: Charles Proteus Steinmetz [or Karl August Rudolph Steinmetz]

4. The leader of this military action was previously captured in John Hunt Morgan's raid on Ohio. For 10 points each:  
[10] Name this October 19, 1864 "raid" in which Confederates moved south from Canada to rob banks in the namesake New England town. It is considered the northernmost land engagement of the Civil War.  
ANSWER: St. Albans Raid  
[10] St. Albans is a town in this New England state, which was defended by the Green Mountain Boys during the Revolution.  
ANSWER: Vermont  
[10] Each year, Vermonters celebrate Bennington Battle Day, which honors this general's victory at the 1777 Battle of Bennington. He coined the phrase "live free or die," which is the motto of his home state, New Hampshire.  
ANSWER: John Stark
5. The title figure rests on top of a fox burrow in this artist's *Christ in the Wilderness*. For 10 points each:  
[10] Name this British artist of the *Shipbuilding on the Clyde* series, who also depicted villagers from Cookham in various biblical scenes.  
ANSWER: Sir Stanley Spencer  
[10] Spencer painted this figure as an enormously rotund man in a green robe surrounded by geese and hens. Both Giovanni Bellini and Caravaggio painted him "in ecstasy," and Giotto showed him preaching to the birds.  
ANSWER: St. Francis of Assisi [prompt on "(St.) Francis"]  
[10] Spencer's nude portraits, such as *Leg of Mutton Nude*, inspired the style of this later British artist, whose many nudes include a portrait of the obese Sue Tilley asleep on a sofa titled *Benefits Supervisor Sleeping*.  
ANSWER: Lucian [Michael] Freud
6. This collection was published in 1610 with a six-voice *Missa in illo tempore*. For 10 points each:  
[10] Name this collection of sacred concertos and other pieces for the title evening service. It ends with a lengthy Magnificat for seven voices.  
ANSWER: 1610 Vespers, SV 206 [accept either underlined part; or Vespers of the Blessed Virgin; or Vespro della Beata Vergine da concerto, composto sopra canti fermi]  
[10] The 1610 Vespers were composed by this Italian, who wrote innovative madrigals like "Cruda Amarilli," as well as *Il combattimento di Tancredi e Clorinda*. He also wrote the operas *L'incoronazione di Poppea* and *L'Orfeo*.  
ANSWER: Claudio [Giovanni Antonio] Monteverdi  
[10] The penultimate movement of Monteverdi's Vespers is a setting of this Marian hymn. Its title draws an appropriate parallel between Mary's name and the Latin word for "sea."  
ANSWER: Ave, maris stella [or Hail, star of the sea]



7. These items were banned by the Dress Act of 1746 after the Battle of Culloden. For 10 points each:  
[10] Name this apparel whose popularity Hugh Trevor-Roper attributed to a Quaker named Thomas Rawlinson, and not to generations of people who roamed the Scottish Highlands.  
ANSWER: **kilts** [or **philabeg**]  
[10] Trevor-Roper thus suggests that the kilt is an example of one of these ideas, which are essentially cultural norms that, by repetition, are taken to imply a continuity with the past. Eric Hobsbawm and Terence Ranger collected multiple essays illustrating them in a 1983 book.  
ANSWER: **invented traditions** [prompt on partials; accept word forms; accept *The **Invention of Tradition***]  
[10] Trevor-Roper traced the kilt fraud to *Vestiarium Scoticum* and *The Costume of the Clans*, books by two Englishmen who claimed descent from the Stuarts and this dynasty. The Old Pretender married into this dynasty, which included a king who routed the forces of Kara Mustafa in 1683.  
ANSWER: **Sobieski** [accept **Sobieski Stuart**]
8. This scientist wrote the oft-cited paper “Homage to Santa Rosalia, or Why Are There So Many Kinds of Animals?” and was an early developer of the niche concept in ecology. For 10 points each:  
[10] Name this “Father of Limnology,” a Yale ecologist who asked why so many types of phototrophs can coexist in a relatively isotropic environment in the landmark paper “The Paradox of the Plankton.”  
ANSWER: George Evelyn [G.E.] **Hutchinson**  
[10] Many limnologists can moonlight as paleobotanists by studying ancient deposits of this substance on lake bottoms. It contains male gametes, which travel down a tube towards the female pistil base.  
ANSWER: **pollen**  
[10] Joe Connell’s barnacle experiments demonstrated the difference between the “realized” niche and this other type of niche, which is the ecological space an organism could theoretically occupy in the absence of competition.  
ANSWER: **fundamental** niche
9. A play by this author features a scene in which a man advises his favourite wife to “be sharp and sweet” while she pulls out his armpit hair. For 10 points each:  
[10] Name this author of a play that ends with Sidi marrying the elderly chief Baroka.  
ANSWER: [Akinwande Oluwole] Wole **Soyinka**  
[10] In *The Lion and the Jewel*, Sidi realizes how beautiful she is after a person of this profession visits the village on a motorcycle.  
ANSWER: **photographer** [accept answers indicating a **photojournalist** or guy with a **camera**; prompt on “(Lost) Traveller” or “(the) stranger”]  
[10] This Soyinka play features a play-within-a-play in which one character refuses to participate in a war over Madame Tortoise. In another of its scenes, Obaneji investigates the burning of an overcrowded bus appropriately called “The Incinerator.”  
ANSWER: **Dance of the Forests**

10. Under this theory, predicates at the lowest level of a hierarchy can be defined in terms of objects only, but predicates at the next level can be defined in terms of objects and/or predicates at the previous level. For 10 points each:
- [10] Name this theory that attempts to resolve the paradoxes of naïve set theory. Its mature form was laid out in *Principia Mathematica*.  
ANSWER: theory of **types** [or **type theory**; accept word forms such as **typing** or **typed**]
- [10] This Briton developed the theory of types and wrote the *Principia* along with Alfred North Whitehead.  
ANSWER: Bertrand [Arthur William] **Russell**
- [10] Independently of Ludwig Wittgenstein and C.S. Peirce, this logician proposed that truth tables could replace type theory. His namesake “correspondence problem” is an undecidable decision problem.  
ANSWER: Emil [Leon] **Post**
11. This man founded an army that included one of the only all-female regiments in Asia during World War II. For 10 points each:
- [10] Name this man who declared the founding of the First Indian National Army while accepting a transfer of prisoners of war at Farrer Park in 1942.  
ANSWER: Mohan **Singh**
- [10] After lapsing in 1942, the INA was restarted by this Indian freedom fighter with support from the Japanese. He was popularly called “Netaji” and died in a plane crash in Taiwan in August 1945.  
ANSWER: Subhas [or Subash] Chandra **Bose**
- [10] Many of the first INA soldiers were Indians captured as prisoners of war when this “Gibraltar of the East,” the location of Singh’s Farrer Park address, fell in 1942.  
ANSWER: **Singapore** [accept **Battle of Singapore** or **Fall of Singapore**]
12. The author of this play misunderstood a joke about an “old nun’s twat,” leading him to use the word “twat” to mean “cowl” in this verse drama. For 10 points each:
- [10] Name this verse drama in which an Italian girl unknowingly saves the life of a revolutionary named Luigi as she walks through Asolo. Its most famous line comes after the line “the lark’s on the wing / the snail’s on the thorn.”  
ANSWER: **Pippa Passes**
- [10] This English author of *Pippa Passes* also set *The Ring and the Book* in Italy.  
ANSWER: Robert **Browning**
- [10] Browning wrote this five-part drama, in which the title character converses with his friends Festus and Michal about how, despite his intellectual gifts and aspiration, he is unable to attain greatness in a discredited and worthless science.  
ANSWER: **Paracelsus**
13. This choreographer adapted William Walton’s *Façade* into ballet form but left out the poems at the request of Edith Sitwell. For 10 points each:
- [10] Name this British dancer, who served as the initial choreographer of the Royal Ballet during its move into Covent Garden and through 1970. He included in many of his ballets a trademark “Fred step.”  
ANSWER: Sir Frederick [William Mallandaine] **Ashton**
- [10] Aston’s two-part ballet *Monotones* is based on the music of this French composer of *Gymnopédies*.  
ANSWER: Erik **Satie** [or Éric Alfred Leslie **Satie**]
- [10] Ashton’s “Fred step” was inspired by this ballerina, who inspired Ashton to become a dancer at a young age when he saw her perform in Lima in 1917. She popularized the Jarabe Tapatío hat dance after she traveled to Mexico with a dance company that she founded.  
ANSWER: Anna [Pavlovna Matveyevna] **Pavlova**

14. Polynomials used for this purpose include Lagrange polynomials, Newton polynomials, and Hermite polynomials. For 10 points each:  
[10] Name this task in numerical analysis that involves using a polynomial to approximate some other function.  
ANSWER: **interpolation** [accept word forms]  
[10] A problem in numerical interpolation is Runge's phenomenon, in which error oscillation occurs over the edges of an interpolating interval. Runge's phenomenon occurs due to the fact that the interpolating points have this property.  
ANSWER: the points are **equi-spaced** [or the points are **equally spaced** from each other; accept equivalents]  
[10] This man's approximation theorem states that, over a closed interval, one can use a polynomial to model a continuous function with as much precision as desired.  
ANSWER: Karl [Theodor Wilhelm] **Weierstrass** [or Marshall Harvey **Stone**; accept **Stone-Weierstrass** theorem]
15. In April 1966, *Esquire* published a profile of a singer that was written by this journalist, who did not have consent of the subject, but wrote the piece after trailing the singer's entourage and writing his observations. For 10 points each:  
[10] Name this still-living journalist who wrote the *Esquire* article "Frank Sinatra Has a Cold."  
ANSWER: Gay **Talese**  
[10] Talese's articles were some of the earliest examples of "New Journalism," a term coined by this author of *The Electric Kool-Aid Acid Test* and *A Man in Full*.  
ANSWER: Tom **Wolfe** [accept **Thomas Kennerly Wolfe** (Jr.); do not accept or prompt on "Thomas (Clayton) Wolfe"]  
[10] The Wolfe-edited 1973 anthology *The New Journalism* contained *Beth Ann and Macrobioticism*, the first magazine article by this rock music critic whose "Consumer Guide" columns appear in *The Village Voice*.  
ANSWER: Robert **Christgau**
16. While living at Port Breeze in the U.S., this man may have encountered the Jersey Devil. For 10 points each:  
[10] Name this former ruler of Naples, who was succeeded by Joachim Murat. He abdicated the throne of another country soon after his forces lost the Battle of Vitoria.  
ANSWER: **Joseph-Napoleon Bonaparte** [or **Joseph I** or **José I**; prompt on "Bonaparte" or "Joseph" or "José"]  
[10] Joseph Bonaparte ruled over Spain during this phase of the Napoleonic Wars, which inspired Francisco Goya's *The Third of May, 1808* and led to the introduction of the word "guerrilla" into English.  
ANSWER: **Peninsular** War  
[10] The official instrument of government for Joseph Bonaparte's reign in Spain was an 1808 constitution, or "statute," named for this city in southwest France.  
ANSWER: **Bayonne** [or **Bayona**; accept **Bayonne Statute** or **Estatuto de Bayona**]

17. In 1952, youthful adherents of this sect attacked a priest, tagging him with a placard reading “raccoon dog monk.” For 10 points each:  
 [10] Name this Japanese sect of Nichiren Buddhism, described as “the world’s largest Buddhist lay group,” that has over 12 million adherents and is sometimes considered a quasi-fascist organization or a cult.  
 ANSWER: **Soka Gakkai** [International] [accept **Soka Kyoiku Gakkai**]  
 [10] Soka Gakkai reveres and chants the name of this Mahayana sutra, which is named for a flower.  
 ANSWER: **Lotus Sutra** [or **Saddharma Pundarika Sutra**]  
 [10] The Lotus Sutra uses the parable of the burning house, in which a parent bribes a child to exit a burning building, to illustrate this Buddhist concept, which signifies a conscious choice of faith that is driven by incomplete but effective reasoning.  
 ANSWER: **upaya** [accept **expediency** or **expedient means** or **convenience** or **convenient means** or word forms]
18. This play’s protagonist attempts to establish a life for himself and his pregnant wife Tony by peddling stolen refrigerators and robbing a jewelry store so that he can buy a video store. For 10 points each:  
 [10] Name this play about the title ex-con.  
 ANSWER: **King Hedley II**  
 [10] *King Hedley II* is, like *Seven Guitars* and *Fences*, a member of a cycle of plays set in this city by August Wilson.  
 ANSWER: **Pittsburgh** [Cycle]  
 [10] King and his mother Ruby appear in *Seven Guitars*, which opens with the funeral of this blues musician. His story is told via flashbacks and reminiscences of characters attending his funeral.  
 ANSWER: **Floyd “Schoolboy” Barton** [accept any underlined name]
19. In 1966, this man joked in *Newsweek* that Wall Street indices “predicted nine of the last five recessions.” For 10 points each:  
 [10] Name this first American to win the Nobel Prize in Economics. He authored the textbook *Economics: An Introductory Analysis*.  
 ANSWER: Paul [Anthony] **Samuelson**  
 [10] In Samuelson’s textbook, he made a notorious prediction about the growth of the economy of this country, whose GNP he predicted would achieve a major benchmark in 1984.  
 ANSWER: **Soviet Union** [or **USSR**; or **Union of Soviet Socialist Republics**] [he predicted the Soviets would overtake U.S.]  
 [10] This Harvard professor, known as the “American Keynes,” was one of Samuelson’s teachers. The IS-LM model is sometimes labeled the “synthesis” of this man and John Hicks.  
 ANSWER: Alvin [Harvey] **Hansen**
20. Identify some possibilities for better storage of hydrogen, for 10 points each.  
 [10] This compound can be used as a proxy, due to its great hydrogen density and the fact that it can be synthesized efficiently using the Haber-Bosch process.  
 ANSWER: **ammonia** [or **NH<sub>3</sub>**]  
 [10] Another possibility is to use hydrides of this element. Acids in which two hydroxyl groups are bound to this element react with amines or hydroxyl groups in the presence of base and copper acetate to form C-N or C-O bonds in the Chan-Lam reaction.  
 ANSWER: **boron** [or **B**]  
 [10] If all else fails, you can use hydrogen to generate methane from carbon dioxide using this reaction discovered by an early Nobel-winning chemist. This reaction is considered important for efficient resource utilization in manned space explorations.  
 ANSWER: **Sabatier** reaction