

## Chicago Open 2014: A Redoubtable Coupling of Editors

Packet by Who What When Where Kawhi, An Inquiry into the Nature and Causes of the Glenn T. C-borglum Institute of Element Discovery (Billy Beyer, Chris Borglum, Shan Kothari, Mik Larsen)

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

### Tossups

1. In a memoir named for this substance, the teacher Mr. Calhoun is impressed by the author's recital of the Pluto and Proserpina story. A novel partially titled for this stuff, in which the protagonist earns \$175 for his short story "Long Lost Hills," is the third of four novels its author wrote about Arturo Bandini. Miss Habersham and Aleck Sander unearth a grave only to find Jake Montgomerie's corpse, and not Vinson's, in another novel named for this substance. It partially titles a Los Angeles novel by John Fante. Another novel named for this noun begins with a black farmer rescuing "Chick" Mallison from an icy creek. It also appears in the title of an autobiography that recalls its author's tutelage under Franz Boas and the creation of *Mules and Men*. A book partially named for this substance is a murder mystery centering on Lucas Beauchamp. For 10 points, name this substance that modifies "tracks on a road" in a Zora Neale Hurston memoir, and in which there is an "intruder" in a William Faulkner novel.

ANSWER: **dust** [accept Ask the Dust or Intruder in the Dust or Dust Tracks on a Road]

2. In one painting by this artist, a smiling man holds a fish and two onions behind a woman having her pulse checked. In another painting, this artist included a self-portrait who claims parentage of the central infant by holding the bunny-ears-like sign of the cuckold behind the child's head. In a third painting by this artist, a child in a highchair plays with a pearl necklace, a duck is perched on the shoulder of a Quaker, and some roses are cast before a pig. A self-portrait by this artist of *The Doctor's Visit*, *Celebrating the Birth*, and *Beware of Luxury* shows him seated in a chair, crossing his legs, smiling, and playing the lute. This painter, whose *Dancing Lesson* shows children forcing a cat to dance, painted a girl holding an empty shoe, a boy pointing at a chimney, and a girl unwilling to share gifts in his *The Feast of Saint Nicholas*. The toasting, pipe-smoking, and horn-blowing antics of *The Merry Family* are typical of, for 10 points, what Golden Age Dutch genre painter of bawdy domestic scenes?

ANSWER: Jan [Havickszoon] **Steen**

3. Giovanni Sartori's book on these institutions characterizes them "as part" and "as whole." In a book about the "why" of these institutions, John Aldrich argued that they are highly endogenous. According to the Lipset-Rokkan hypothesis, these institutions have been divided by four cleavages that emerged in the 1920s. Richard Katz and Peter Mair have claimed that, since the 1970s, the "cartel" type of these institutions has arisen. Markku Laakso and Rein Taagepera proposed using the inverse Simpson's index to calculate the effective number of these institutions, which name a book that distinguishes their "elite-based" and "mass-based" types. They also name the book in which Robert Michels stated his "iron law of oligarchy." According to Duverger's Law, plurality rule and proportional representation tend to favor systems with two of them. For 10 points, name these political organizations that seek to achieve common goals, which include the Republicans and the Democrats.

ANSWER: political **parties** [accept word forms or party systems or Parties and Party Systems or Why Parties]

4. A commentator noted that this revolution cut society in two, with “those who had nothing united in common envy, and those who had anything united in common terror.” The government that formed immediately after this revolution established a “right to work” and spawned the conservative alliance known as the “Party of Order.” The *Recollections* of Alexis de Tocqueville are an important primary source for this revolution, which broke out in the wake of the Campaign of the Banquets, and was immediately followed by worker unrest following plans to close the National Workshops that boiled over into the June Days Uprising. Alphonse de Lamartine was appointed president of a provisional government after this revolution toppled the government of prime minister Francois Guizot. For 10 points, name this revolution in which the July Monarchy of Louis-Philippe was toppled, leading to the rise of the Second Republic and setting off a year filled with nationalist revolutions across Europe.  
ANSWER: French Revolution of **1848** [or **February** Revolution; or Révolution de **Février**]
5. This technique requires recoupling times in CODEX experiments that are achieved via synchronized pi pulses, as CODEX measures dynamics on the seconds-scale by detecting CSAs that are lost in this technique. Techniques like REDOR and RFDR can be used to recover signals lost due to this technique to construct distance metrics between labeled nuclei. This technique is only useful when samples are subject to frequencies greater than the line-width of the spectrum. Second-order quadrupolar interactions are not eliminated in this technique. This technique was suggested by Andrew and Lowe, who showed that Hamiltonians describing nuclear-nuclear dipolar interactions are proportional to “three cosine squared theta minus one.” Those dipolar interactions are canceled out at its namesake orientation. For 10 points, name this technique in which samples are placed at a 54.74 degree angle with respect to the applied B-field and then rapidly rotated, which is heavily used in solid-state NMR.  
ANSWER: **magic angle spinning** NMR [or **MAS** NMR; prompt on “NMR” or “(ss)NMR” or “(solid state) NMR” until mentioned; accept “**CODEX**” until mentioned]
6. This city’s winning mayoral candidate in 1927 courted the Irish vote by boasting that, if given the chance, he’d punch King George V in the face. One mayor in this city was opposed by the Vrdolyak 29 [vrüh-DOH-lee-ack “29”] in the Council Wars after 81% of this city’s whites and 3% of its blacks voted for Bernard Epton, who would have been its first Republican mayor since 1931. Its final Republican mayor, who defeated William Dever in 1927 and controlled a faction opposed by the candidates supported by U.S. senator Charles Deneen in the violent “Pineapple Primary” of 1928, was the massively corrupt “Big Bill” Thompson. Another mayor of this city, whose tenure was chronicled in local columnist Mike Royko’s book *Boss*, called Connecticut senator Abe Ribicoff a “Jew son of a bitch” for denouncing the “Gestapo tactics” used during the 1968 Democratic National Convention. For 10 points, name this city once led by mayor Richard J. Daley.  
ANSWER: **Chicago**
7. *The Book of Taliesin* states that this hero built a *caer* that is actually the starry belt of the Milky Way. This man is able to guess a rival’s name after he recognizes sprigs of alder on the shield of his foe. A controversial section of *The White Goddess* asserts that the name of this man’s horse is Yggdrasil, and that this Celtic god was actually Odin. His mischievous brother Amaethon stole a dog, a lapwing, and a roebuck from the king of the underworld. This hero is able to defeat Arawn after he makes several trees to come to life in the episode “The Battle of the Trees.” He instigates a conflict by stealing the magical pigs of Pryderi; for that crime, he and his brother Gilfaethwy [gill-FAY-thoh-ee] are turned into three separate animals for three different years. This sorcerer creates Blodeuwedd [blahd-EYE-weth] out of flowers. For 10 points, name this magician who figures prominently in the *Math fab Mathonwy* section of the *Mabinogion*.  
ANSWER: **Gwydion** fab Don [or **Gwyddien** or **Guidgen** or **Fidgen**]

8. This effect occurs in a vacuum under the Sposita potential, but not under the HFDHE2 ["H-F-D-H-E-2"] potential. Sandouqa et al. used the Galitskii-Migdal-Feynman formalism to analyze this effect's occurrence in liquid helium-3. Vahedi et al. applied the generalized uncertainty principle to show that this effect causes a shift in the transmission resonance wavenumber. An experiment commonly used to demonstrate this effect includes parameters such as the cathode space charge factor and the ratio of the plate angle to the shield angle; that experiment features a 2D21 ["2-D-2-1"] thyratron. The simplest model that predicts this effect is a one-dimensional finite square potential well. In the standard example of this effect, a kinetic energy of approximately 0.7 electronvolts results in a minimum probability of collision with xenon, which cannot be explained by classical physics. For 10 points, name this quantum mechanical effect involving the scattering of electrons by the atoms of a noble gas.

ANSWER: **Ramsauer-Townsend** effect [accept either underlined name]

9. In "A Loose Saraband," this subject washes the speaker's wounds with tears after the speaker is metaphorically "flogged" by Cupid. Another poem states that "destiny decreed / that beasts to [her] a sacrifice must bleed," erotically contrasting the white of her fingers with her ermine muff. A third poem describes a black fly that mistakes her face for paradise. Another poem addressing this woman refers to a king as "being the whole ball / of day on earth" and describes the Big Dipper as a "starry wain." Her sighs are "cold as the breath of winds that flow / to silver shot descending snow," and her frown "to rubies froze / the blood that boiled in our veins" in a poem depicting her namesake "world." Andrew Marvell wrote that some "will allege" that another poet "wronged in [this woman] the houses' privilege." For 10 points, what woman is asked to "tell me not, sweet, I am unkind" at the beginning of a Richard Lovelace poem addressed to her upon "going to the wars"?

ANSWER: **Lucasta**

10. This book uses the fact that the Zulu term for "far away" is "a place where one cries 'mother, I am lost'" to illustrate its central observation that "the world is twofold for man in accordance with his twofold attitude." One section of this book begins by "contemplat[ing] a tree" that, on one hand, can be accepted as a picture, felt as a movement, assigned a species, stripped of its uniqueness, or dissolved into a number, or on the other hand, can be "drawn into a relation" with the observer. The contrast between "experience" and "encounter" is central to this book, which is divided into three sections of aphorisms and argues that an ideal society should be built on a person's relationship with others. The third section of this book is a manual for preparing one's self for an "absolute encounter" with God, who is described as the "eternal you." For 10 points, name this book about the man-God relationship by Martin Buber.

ANSWER: **I and Thou** [or **Ich und Du**; accept **I and You**]

11. Schubert pieces in this genre include his last song with text by Johann Mayrhofer, and the third Heine song in *Schwanengesang*, which, unusually, is in a major key. Alkan's *Troisième recueil des chants* ends with one of these pieces. Gabriel Fauré wrote 13 non-nocturne piano pieces in this genre. The "June" movement of Tchaikovsky's *The Seasons* is in this genre, which was used for the first two pieces in the "supplement" to the second year of Liszt's *Years of Pilgrimage*, including a transcription of one of them from Act III of Rossini's *Otello*. Liszt paid homage to this genre in two very late pieces titled with the adjective "Lugubre." Chopin included lengthy double trills on A sharp and C sharp in the right hand in his 12/8-time, F-sharp major piece in this genre, which is often paired with his *Berceuse*. Schubert's *Auf dem Wasser zu singen* pays homage to this genre. For 10 points, name this genre that Mendelssohn used in his three *Songs Without Words* labelled "Venetian Gondola Song."

ANSWER: **barcarolle** [or **barcarolla**; accept **Gondelfahrer** or **Gondoliera** or **Gondolier's Song** or **Venetian Gondola Song** or **Venetian Boat Song** or **Venetianisches Gondellied** before "Venetian"]

12. The variables in this mathematical approach can be turned into quantifiable outputs using “center of gravity” and “center of area” approaches, or they can be combined into a centroid approach. Both Godel and Mamdini modified the implication operator so that it is polyvalent in this approach. This approach, which is often used to control and model anti-lock brakes, uses IF-THEN syntax instead of IF-ELSE syntax. The inputs to this approach are called linguistic variables and actually have real world meaning. Lofti Zadeh introduced the notation for this representation, in which elements of a set are assigned a value that represents their degree of inclusiveness. This infinite-valued system is used when the principle of bivalence and the law of the excluded middle do not necessarily hold. For 10 points, name this system of logic that expresses a notion of vagueness by having statements take on a value between zero and one to represent “sort of true, sort of false.”

ANSWER: **fuzzy** logic [or **fuzzy** set theory]

13. This literary movement’s idea of the “interior exile” is exemplified by the speaker’s preference for the “bedroom’s sickly scent” over “the smell of a mahogany plant” in the decadent poem “In the Countryside.” “The Origin of the Flood” and “The Omega Force” are proto-science fiction stories from *The Strange Forces*, a collection that exemplifies this movement’s suspicion of technology. Another indictment on technology by an author in this movement is a poem chastising its subject for thinking that “progress is eruption” and “life is fire.” That poem from this movement states “you join the cult of Hercules to the cult of Mammon.” This movement, which sought to blend the decadence of the Symbolists with the aesthetics of the Parnassians, was championed by the author of the essay collection *Los Raros* and the poetry and prose in *Profane Prose and Other Poems*. For 10 points, what literary movement was fostered by the collection *Azul* by Ruben Dario?

ANSWER: **Modernismo** [prompt on “modernism” or word forms]

14. A major defeat of this dynasty’s forces occurred when Gang Gam-chan unleashed a dammed river upon them at the battle of Guju. Nazaruddin designed the Niujie Mosque during this dynasty, whose first ruler defied his culture’s preference for succession by merit by naming his son to the throne. The second emperor of this dynasty accepted the founder of another empire, Shi Jingtang, who was ten years his junior, as his fictive “son” in a ploy to gain suzerainty over the Sixteen Prefectures. This dynasty received 200,000 bolts of silk and 100,000 taels of silver each year as a result of the Shanyuan Treaty, which it signed after defeating its southern neighbor, the Northern Song. The first ruler of this dynasty, a Khagan named Abaoji, took the imperial name Emperor Taizu. This dynasty fell when its Emperor Tianzuo was captured by the Jurchens in 1125 CE. For 10 points, name this dynasty founded by Khitan people, which ruled Mongolia and northern China starting in 907 CE and took its name from a river.

ANSWER: [Great or Da] **Liao** dynasty or cháo [or **Mos Jaelud**; accept **Khitan** Empire before “Khitan”]

15. This player once lost a game of “horse” to golfer Hunter Mahan, who hit a behind-the-backboard three point shot. He once claimed that, although he “didn’t play a second,” in 5 years “you guys are going to forget,” in 10 years, he’d “still be a champ,” in 20 years, he’d tell his kids he started, and in 30 years, he’d “probably tell them I got the MVP.” This player’s history of concussions caused him to wear a huge padded headband while playing with the Bulls during the final year of his career. In March 2014, Mark Jackson cited a difference of philosophies when assigning this man, then an assistant coach for the Warriors, to a D-League team in Santa Cruz. This man claimed that he was nicknamed for “the world’s most dormant snake” as opposed to Kobe Bryant, who was nicknamed for the “world’s deadliest snake.” For 10 points, name this benchwarmer and three-point specialist, a red-headed forward nicknamed “The White Mamba” who won a title with the Celtics in 2008.

ANSWER: Brian [David] **Scalabrino**

16. One poem by this author contains two stanzas that are acrostics spelling out his name and the name of “Martha,” who may be a “false beauty.” A *blason* by this author is paralleled by a reverse *blason* in which an old woman describes how her attractive features have deteriorated with age. A poem by this author speaks favorably of Duke Artus, King Alphonso and Pope Callixtus the Third. Another of his poems describes the alcoholism of “our good late Master Jean Cotart.” A poetic sequence by this author opens by describing the humiliation that he experienced at the hands of the Bishop Thibault d’Aussigny. In a series of stanzas beginning with “Item,” this writer bequeaths various possessions to real and hypothetical people. This author wrote two *ubi sunt* ballades about the ladies and men of times past, and the lines “where, where is worthy Charlemagne?” and “where are the snows of yesteryear?” For 10 points, name this medieval French poet who wrote *Le Grande Testament*.

ANSWER: Francois Villon

17. This activity is carried out by a protein complex that contains a BRPF scaffolding protein and two PHD domains. Protein complexes that carry out this process include the MOZ/MORF and HBO1 complexes, which both contain an ING protein. In Goetze et al.’s (X)PX [“X-P-X”] rule, the presence of proline at residues one or two of a nascent peptide prevents the occurrence of this modification. This modification is recognized by a conserved 110-residue module that consists of loops of alpha helices named ZA and BC, in which the BC-loop contributes an asparagine residue to stabilize one amino acid with this modification. EP300 and MYST family proteins carry out this modification. Bromodomains recognize this modification on lysine residues, which occurs more often in euchromatin than in heterochromatin. For 10 points, name this reaction, a post translational modification that involves the addition of a COCH<sub>3</sub> [“C-O-C-H-3”] group, commonly done to histones by proteins called HATs.

ANSWER: acetylation [or ethanoylation; accept word forms acetylate or add acetyl groups; do not accept or prompt on “deacetylation” or “removing of an acetyl group”]

18. In an anecdote illustrating this quality, the painter Apelles throws a sponge in frustration at his effort to paint the foam on a horse’s mouth, only then succeeding in doing so. In *The Will to Power*, Friedrich Nietzsche denied that this quality equates with psychic health, because the desire for it is emblematic of nihilism and symptomatic of decadence. Michel de Montaigne’s “Apology for Raymond Sebond” discusses how Zeno’s conception of the division of the faculties of the soul as analogous to positions of his hand leads to belief in this “straight and inflexible” quality. Diogenes Laertius’s story of a pig that ate calmly on a ship during a storm led Pyrrho to state that this quality was an ideal state of being in which people live in accordance with their nature. Sextus Empiricus said that it could be brought about by *epoche*, or suspension of judgment, and the Stoics associated it with *apatheia*. For 10 points, name this state of robust tranquility that Epicurus thought was the ideal condition for humans.

ANSWER: ataraxia [prompt on “tranquility” before “tranquility”]

19. This museum, which includes a helical staircase and an outdoor “mathematical garden,” was founded by Reynolds and Eleanor Morse to replace a gallery in Beachwood, Ohio. Architect Yann Weymouth designed this museum’s concrete building, which is surrounded by a geodesic bubble made up of over a thousand triangular pieces of glass. This museum houses, and is in close geographic proximity to the setting of, a painting in which a man holding a large banner displaying either Saint Helena or the Blessed Virgin drags a ship ashore as people hold tall, pole-like crosses on the right. This museum houses another painting that shows a tear falling from the right eye of a bullfighter, whose tie is actually the skirt of a Venus de Milo statue. For 10 points, name this museum in St. Petersburg, Florida that houses *The Discovery of America by Christopher Columbus*, *The Hallucinogenic Toreador*, and seven other masterworks by its namesake artist.

ANSWER: Salvador Dalí Museum

20. In 1127, Louis VI of France plotted for the leadership of this region to pass to William Clito, who quickly died of a gangrenous wound, after the previous ruler of this region, Charles the Good, was hacked to death in the church of St. Donatian. An administrator of this region married Judith, the daughter of Charles II, and was known as “Iron-Arm.” Rival factions called the Leliaerts and the Clauwaerts dominated the social milieu of this region, which signed the Treaty of Athis-sur-Orge and ceded Orchies and Douai after a disastrous loss to France. A rebellion against Count Louis II of this region was defeated at the Battle of Roosebeke and was led by Philip van Artevelde. An heir to this region, who instead decided to become Latin emperor of Constantinople, was Baldwin I. This region, which was dominated by the weaving trade, raised a peasant army that shockingly defeated the forces of Philip IV at the Battle of the Golden Spurs. For 10 points, name this Dutch-speaking region of Belgium.
- ANSWER: County of **Flanders**

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### Bonuses

1. In a 1958 book on this type of organism, Charles Elton suggested that their competitive ability has a negative correlation with existing species richness. For 10 points each:  
[10] Name this type of species whose success has been explained by the “evolution of increased competitive ability” hypothesis and the “enemy release” hypothesis.  
ANSWER: **invasive** species [accept word forms; accept **nuisance** species; prompt on “non-native species” or “exotic species” or “introduced species” or “alien species”]  
[10] This technique, which studies long-term phenotypic evolution, models the introduction of mutant alleles as a series of invasions, and uses pairwise invasibility plots to map mutant trait values with a positive selection gradient.  
ANSWER: **adaptive dynamics** [or **evolutionary invasion analysis**]  
[10] A possible outcome in adaptive dynamics is an evolutionarily stable strategy, which is discussed at length in this first Richard Dawkins book. This book also coined the word “meme” and popularized the ideas of G.C. Williams, who proposed that the title kind of entity, rather than organisms, are subject to natural selection.  
ANSWER: *The **Selfish Gene***
2. The finished portion of this novel concludes with a story told by Klingsohr about Eros, in which the Scribe fails to pass Sophie’s test of having his writings dipped in water, but Fabel succeeds. For 10 points each:  
[10] Name this unfinished novel about a man who travels with his mother to Augsburg and falls in love with Mathilde.  
ANSWER: **Henry of Ofterdingen** [or **Heinrich von Ofterdingen**]  
[10] *Henry of Ofterdingen* is by this German Romanticist. This man wrote “blessed be the eternal night / and blessed the endless slumber” in “Longing for Death,” the last of his *Hymns to the Night* written after the death of Sophie von Kuhn.  
ANSWER: **Novalis** [or Georg Philipp Friedrich Freiherr von **Hardenberg**]  
[10] This German Romanticist wrote the aesthetic treatise “On the Formative Imagination of Beauty” and a psychological novel about a day-dreamer and aspiring poet titled *Anton Reiser*.  
ANSWER: Karl Philipp **Moritz**
3. Possible methods of resolving this problem include a cycle called the *latercus* and the Alexandrian *computus*. For 10 points each:  
[10] Name this millennia-long problem in Christianity that was resolved in the kingdom of Northumbria at the Synod of Whitby.  
ANSWER: calculating the **date** of **Easter** [accept equivalents such as **when to celebrate Easter**]  
[10] The Synod of Whitby is a central event in this saint’s *Ecclesiastical History of the English People*.  
ANSWER: Venerable **Bede** [or **Saint Bede**; or **Beda** Venerabilis; or **Baeda**]  
[10] The First Council of Nicaea resolved an early Easter-date controversy by declaring that the holiday would no longer be calculated based on this Jewish month; the Quartodeciman controversy also concerned Christian practices aligned with this Jewish month.  
ANSWER: **Nisan**

4. You are Arcangelo Corelli and are writing some music. For 10 points each:  
[10] Like every other Italian Baroque composer, you make extensive use of this kind of musical passage, in which material is repeated in progressively higher or lower transpositions.  
ANSWER: sequences  
[10] Being Corelli, your sequences would often use descending “chains” of this type of nonharmonic tone.  
ANSWER: suspensions  
[10] Congratulations, you’ve just finished your “Christmas” Concerto! The last movement uses drones and other rustic devices to evoke this style, for which it is titled. Beethoven’s sixth symphony uses similar devices, and also has this nickname.  
ANSWER: pastorale [accept pastorale ad libitum]
5. In 2012, Sayers et al. observed this effect for the first time in the galaxy cluster MACS J0717. For 10 points each:  
[10] Name this kinetic component of the Sunyaev-Zeldovich effect that is predominant at small angular scales.  
ANSWER: Ostriker-Vishniac effect  
[10] The amplitude of the Ostriker-Vishniac is constrained by the fraction of primordial hydrogen atoms that underwent this process. This epoch of the universe followed the Dark Ages.  
ANSWER: epoch of re-ionization [do not accept or prompt on “ionization”]  
[10] The Ostriker-Vishniac effect is a result of this phenomenon, the inelastic collision of an electron with a photon.  
ANSWER: inverse Compton scattering [prompt on “scattering”; do not accept or prompt on “Thomson scattering”]
6. Marianne Boelen criticized the alleged ethical transgressions of this ethnographic work, which notes that the bowling scores of the men being studied closely track their social status. For 10 points each:  
[10] Name this study of social organization in an Italian slum in Boston that distinguishes between “college boys” and another group led by Doc.  
ANSWER: Street Corner Society  
[10] In William F. Whyte’s *Street Corner Society*, the Nortons were this type of group. Sudhir Venkatesh’s studies on their hierarchies were reported in *Freakonomics* and a book titled for being the “leader” of one “for a day.”  
ANSWER: gangs [accept Gang Leader for a Day]  
[10] William F. Whyte was a pioneer of this qualitative ethnographic method, in which the ethnographer examines and partakes in the activities of the group being studied to understand the significance of those practices.  
ANSWER: participant observation
7. This man’s alliances with the Communists forced Charles De Gaulle into a 1965 runoff and unseated Valéry Giscard d’Estaing 16 years later. For 10 points each:  
[10] Name this French socialist president who served two terms and left office shortly before his 1996 death.  
ANSWER: François [Maurice Adrien Marie] Mitterrand  
[10] Mitterrand’s career was almost derailed by this 1959 scandal, in which he claimed to have escaped assassination by Algerian radicals by diving behind a hedge. It might have been staged.  
ANSWER: Observatory Affair [or L’attentat de l’Observatoire; or l’affaire de l’Observatoire]  
[10] Mitterrand used this numbered list of potential policies as his blueprint for a socialist France in his 1981 presidential campaign. It included a “solidarity tax on wealth” and the abolition of the death penalty.  
ANSWER: 110 Propositions for France [or 110 propositions pour la France]



8. One print by this man shows women making floss silk, the title *Evening Snow on the Heater*. For 10 points each:  
[10] Name this 18th-century Japanese creator of the *Parlor Views* series. He popularized the full-color *nishiki-e* printmaking technique and was an important predecessor of later printmakers like Hiroshige and Hokusai.  
ANSWER: Suzuki **Harunobu** [prompt on “Suzuki”]  
[10] Harunobu’s *Parlor Views* series contains this number of prints. A popular theme in Asian art is to create this number of scenes of a certain area, such as the *Views of Xiaoxiang* series.  
ANSWER: **eight**  
[10] Harunobu standardized color in the prints of this genre, whose Japanese name means “pictures of the floating world.”  
ANSWER: **ukiyo-e** [or **ukiyo-ye**]
9. This playwright’s early romance about the sons of the Earl of Boulogne, *The Four Prentices of London*, was parodied in Francis Beaumont’s *Knight of the Burning Pestle*. For 10 points each:  
[10] Name this dramatist who kissed up to Elizabeth I by having her appear in his play about commercial London, focusing on the merchant Gresham, *If You Know Not Me, You Know Nobody*?  
ANSWER: Thomas **Heywood**  
[10] Thomas Heywood wrote this domestic tragedy in which Wendoll seduces Master Frankford’s wife Anne, leading Frankford to exile her to a country house, where Anne melodramatically dies of a broken heart after a brief reconciliation with her husband.  
ANSWER: A **Woman Killed with Kindness**  
[10] This critic said *A Woman Killed with Kindness* shared the “weakest underplot of any important play in the...Elizabethan repertory” with *The Changeling*. “Tradition and the Individual Talent” is one of the essays in his *The Sacred Wood*.  
ANSWER: Thomas Stearns **Eliot**
10. This term, which was coined by Gustav Bergmann, describes the movement toward analytic philosophy in the mid-20th century. For 10 points each:  
[10] Name this term often applied to the consideration of the ways that language constitutes reality.  
ANSWER: **linguistic turn**  
[10] The anthology *The Linguistic Turn* was edited by this American philosopher, who wrote *Contingency, Irony, and Solidarity* and *Philosophy and the Mirror of Nature*.  
ANSWER: Richard [McKay] **Rorty**  
[10] Rorty’s essay “The World Well Lost” critiques Donald Davidson’s formulation that one must assume that other speakers hold true beliefs in order to maximize agreement, a principle given this name.  
ANSWER: principle of **charity** [or principle of **rational accommodation**]
11. This conflict was sparked when its namesake was attacked on his ferry on the Susquehanna and was forced to defend himself with oars. For 10 points each:  
[10] Name this colonial conflict of the 1730s, fought over conflicting property disputes in the Susquehanna-Codorus Creek region, which mostly consisted of border raids.  
ANSWER: **Cresap**’s War [or **Conojocular** War]  
[10] Although Cresap’s War ended in 1738, the Pennsylvania-Maryland border dispute was not resolved until this border demarcation was adopted in 1767.  
ANSWER: **Mason-Dixon** line  
[10] The Mason-Dixon line didn’t resolve a dispute over this tract of land around Mechanicsville, Delaware, located where the Twelve-Mile Circle intersects with the Pennsylvania and Maryland borders.  
ANSWER: Delaware **Wedge**

12. This “New England holiday” inspires a sermon on the subject of an American Zion “plant[ed] in the wilderness.” For 10 points each:  
[10] Name this holiday on which the speaker of that sermon totters upon exiting the church, confesses his sins, and dies.  
ANSWER: **Election** Day [accept **Election Sermon** or equivalents]  
[10] This reverend, who is tormented by Roger Chillingworth, delivers the Election Sermon and then confesses that he fathered Hester Prynne’s child, Pearl, in *The Scarlet Letter*.  
ANSWER: Reverend **Arthur Dimmesdale** [accept either underlined part]  
[10] In this introductory essay to *The Scarlet Letter*, the narrator explains that he found a red “A” and a narrative by one Jonathan Pue while working in the title place, inspiring him to write the novel.  
ANSWER: “The **Custom-House**”
13. Moons, asteroids, and the Earth’s crust are predominantly made up of this class of minerals. For 10 points each:  
[10] Name this class of minerals that includes asbestos, quartz, and olivine. They contain oxygen and a namesake semi-metal that comprises much of the Earth’s crust.  
ANSWER: **silicates**  
[10] This class of silicates includes cummingtonite and holmquistite. These silicates always contain magnesium, are usually dark green in appearance, and cleave along 60- or 120-degree planes.  
ANSWER: **amphiboles**  
[10] This group of minerals is the most common amphibole. It was named for the fact that it was frequently confused with ores, and it is often misidentified as augite.  
ANSWER: **hornblende**
14. In the introduction to this piece, the solo trumpet plays raising triplet eighth notes in the third measure before sustaining a high C in the fourth measure. For 10 points each:  
[10] Name this piece composed by Joe Oliver that was named for an area of Louisiana. Its best-known recording was made in 1928 by Louis Armstrong and his band.  
ANSWER: “**West End Blues**”  
[10] That 1928 recording included Louis Armstrong and this collection of individuals, which included Earl Hines, Jimmy Strong, Fred Robinson, Mancy Carr, and Zutty Singleton.  
ANSWER: **Hot Five** [or **Louis Armstrong and His Hot Five**]  
[10] Earl Hines used his characteristic “trumpet-style” of playing this instrument on “West End Blues.” Fats Waller pioneered the “stride” style of playing this instrument.  
ANSWER: **piano**
15. A work by this author concerns the paranoid reign of Queen Amalasuntha before she was confined to an island and murdered in a bathtub. For 10 points each:  
[10] Name this Byzantine historian whose *Gothic War* forms part of his *Wars of Justinian*. His *Secret History* alleged that Justinian could make his head disappear.  
ANSWER: **Procopius** of Caesaria  
[10] Perhaps the most acclaimed later Byzantine historian is this 11th-century wunderkind whose *Chronographia* mixes history and biography in detailing the reigns of fourteen Byzantine emperors.  
ANSWER: Michael **Psellos** [or Michael **Psellus**; or **Mikhael Psellos**; prompt on “Constantine”]  
[10] Psellos’s *Chronographia* begins with the nearly-50-year reign of this emperor, who put down the rebellion of Bardas Skleros and forged a productive alliance with Vladimir I of the Kievan Rus.  
ANSWER: **Basil the Bulgar-Slayer** [or **Basil II**; or **Basileios II**; or **Basileios Boulgaroktonos**; or **Basil the Porphyrogenitus**; or **Basil the Young**; prompt on “Basil”]

16. At the end of his life, this monk exchanged some haiku with the nun Teishin. For 10 points each:

[10] Name this Zen monk hermit of Okayama Prefecture who wrote hundreds of poems in Japanese and Chinese in the late-18th and early-19th century, mostly compiled by Teishin in a book titled “Dew on the Lotus”?

ANSWER: **Ryokan** Taigu

[10] Ryokan primarily wrote in this 31-syllable form, the “upper verse” of which is one of the possible bases for the haiku. This form eventually evolved into *renku*, in which the “upper verse” is written by one poet, and the “bottom verse” by another.

ANSWER: **waka** [accept **tanka**]

[10] Ryokan was influenced by the T'ang Dynasty poet Han Shan, whose “Cold Mountain” poems were translated by this American poet. He is the author of “Smokey the Bear Sutra,” *No Nature* and *Turtle Island*.

ANSWER: Gary **Snyder**

17. In the Nicolau taxol synthesis, a compound named for Ojima that has this functional group is added in the tail-addition step. For 10 points each:

[10] Name these compounds whose smallest types can also be called aziridinones. Another specific type of this functional group, which is found in cephalosporins, has an N-bonded carbon two carbons away from the carbonyl carbon.

ANSWER: **lactams** [prompt on **amides**]

[10] Lactams are not to be confused with lactones, which have this functional group in their cycle. They are created by refluxing a carboxylic acid and an alcohol in a reaction named for Emil Fischer.

ANSWER: **ester** [accept Fischer **esterification**]

[10] This other lactam is formed by adding an oxime group onto cyclohexane, and then doing a Beckmann rearrangement in acidic conditions to generate this compound. This compound is the monomer in the industrial synthesis of Nylon-6.

ANSWER:  $\epsilon$ -**caprolactam** [or “epsilon-**caprolactam**” or **1-Aza-2-cycloheptanone** or **2-Azacycloheptanone**; prompt on “capro”]

18. The Pulgas Water Temple commemorates the completion of an aqueduct rising in this valley. For 10 points each:

[10] Name this valley that was drained by the Tuolumne River. It is now flooded, thanks to the construction of a dam that John Muir and the Sierra Club vociferously opposed.

ANSWER: **Hetch Hetchy** Valley or Reservoir or Aqueduct

[10] The construction of this dam on the Tuolumne River, which was authorized by the Raker Act, resulted in the flooding of Hetch Hetchy Valley.

ANSWER: **O’Shaughnessy** Dam

[10] Hetch Hetchy is located in this national park in the Sierra Nevada; it also contains Glacier Point, Bridalveil Falls, and Half Dome.

ANSWER: **Yosemite** National Park

19. During this event, Hecate immolated Clytius with flaming torches while Hephaestus tossed a piece of molten iron at Mimas. For 10 points each:

[10] Name this event in which the gods, led by Zeus, fought against Enceladus and his brethren.

ANSWER: **gigantomachy** [accept descriptive answers such as the **war** between the **giants** and the gods]

[10] This eldest of the giants led the giants along with his brother Porphyrion. He was immortal, but only if he was near his hometown of Pallene.

ANSWER: **Alcyoneus**

[10] The most complete account of the gigantomachy can be found in the *Bibliotheka* of this mythographer, who shares his name with another mythographer who wrote a thrilling commentary on Homer's *Catalogue of Ships*.

ANSWER: **Apollodorus** [accept **Pseudo-Apollodorus** or **Apollodorus of Athens**]

20. This empire established its dominance by defeating the Denkyira nation at the Battle of Feyiase. For 10 points each:

[10] Name this West African empire of ethnically Akan people, located primarily in present-day Ghana, whose royal throne was a golden stool believed to contain this state's spirit, or *Sansum*.

ANSWER: **Ashanti** Empire or Confederacy [or **Asante** Empire; or **Asanteman**]

[10] The golden stool was said to have floated down from heaven to this first ruler of the Ashanti Empire, who was assisted by his chief priest Okomfo Anokye. He commanded the Ashanti forces at Feyiase, but was killed fighting the Akyem.

ANSWER: **Osei Tutu I** [or **Osei Kofi Tutu I**]

[10] This queen mother of Ejisu led the Ashanti in the War of the Golden Stool against the British imperial government, after refusing to turn over the stool to Frederick Hodgson. She died in exile in the Seychelles.

ANSWER: Yaa **Asantewaa**