

TOSUPS

1. In this city in the 1930s, the meteorologist Wilhelm Gustloff organized a local Nazi party before being shot by the young Jew David Frankfurter, an event described in Gunter Grass’s novel *Crabwalk*. In a 1929 disputation in this city, Ernst Cassirer challenged Martin Heidegger on his concept of “thrownness,” inspiring Heidegger to write *Kant and the Problem of Metaphysics*. Ernst Kirchner (KEERK-ner) spent the last 20 years of his life painting in this city, where he committed suicide. Robert Louis Stevenson wrote *Treasure Island* in one of the 40 tuberculosis sanatoriums constructed in this city, which was also the site of the fictional Berghof (BAIRG-hoff) sanatorium visited by Hans Castorp in Thomas Mann’s novel *The Magic Mountain*. Klaus Schwab (SHVAHB) founded an organization that uses a five-day annual meeting in this city to bring together business elites and world political leaders. For 10 points, name this ski resort in the Swiss Alps that is home to the annual World Economic Forum.

ANSWER: **Davos**

2. This man wrote helpful accompanying inscriptions to woodcut propaganda such as *On the Origin of Monks*, explaining that the devil depicted was suffering labor pains and shitting out monks. This man refuted arguments for papal supremacy in his *Treatise on the Power and Primacy of the Pope*. Matthias Flacius Illyricus challenged this man for labeling pretty much all religious practices *adiaphora*, or “nonessentials.” The Hebraist (hee-BRAY-ist) Johannes Reuchlin (ROY-klin) directed the education of this reformer, whose *Instructions* laid out the rules for new schools. This man was accused of going against *sola fide* in his *Loci Communes*. This “teacher of Germany” authored a set of 28 articles that affirmed the “real presence” in the Eucharist, but denied salvation by works, to be presented at a meeting convened by Charles V. For 10 points, name this author of the *Augsburg Confession*, a Lutheran reformer with a Latinate name.

ANSWER: Philip **Melanchthon** (mell-ANK-thon) [or Philipp **Schwarzerdt**]

3. Martin Gibbs applied a five-stage psychological model created by John Leach to the study of these entities. “Filters” and “scramblers” distort the study of these entities, according to a theorist who charted their traditional lifecycle, Keith Muckleroy. *Ligan* are a sign of the proximity of these entities, whose study is inhibited by the reproduction of *Teredo*. Kenneth McIntyre’s book *The Secret Discovery of Australia* largely relied on evidence from one of these entities. Examination of one of these entities yielded an object intensely studied by Tony Freeth and Alexander Jones, who reproduced a design of eight spindles and fifty-four gears that predicted the location of five planets. Oxhead ingots indicated the location of one of these entities near Uluburun, Turkey. The Antikythera mechanism was discovered during an examination of one of these sites. For 10 points, name this type of site studied in maritime archaeology and exemplified by the remains of the *Titanic*.

ANSWER: **shipwrecks**[or **ships**; or **boats**]

4. A character created by this author orders her daughter to slash her with a paper-cutter whenever she succumbs to depression, which prevents her from getting treatment for her poisoned German shepherd Otto. At the end of one of this author’s novels, the dolls Tina and Nu are mail-delivered to a character who lost them by throwing them in the basement of a loan shark gang. This author employed a technique called “dissolving boundaries” to represent the consciousness of a character who experiences the sky as “poisoned egg stars.” The protagonist of a novel by this author throws a friend’s notebooks into the Arno, in reference to Manzoni. That character, Lenu Greco, competes with her friend Lila across a quartet of novels that begins with *My Brilliant Friend*. This author of *The Days of Abandonment* may have been “unmasked” as the translator Anita Raja by Claudio Gatti in October of 2016. For 10 points, give the pseudonym of this author, a contemporary Italian woman who wrote the *Neapolitan Novels*.

ANSWER: Elena **Ferrante** [or Anita **Raja** until it is read]

5. A widely studied example of one of these enzymes in *Pseudomonas putida* allows the bacterium to use camphor as an energy source. A difference spectrum assay can measure the amount of denaturation of these enzymes based on the shift in their Soret peak. Studies of related chloride peroxidases have shown the catalytic cycle of these enzymes generally involves the formation of an iron-four oxo species, known as “Compound One.” Bergamottin is an inhibitor of these enzymes, which is why patients taking lipitor are advised not to drink grapefruit juice. Phenobarbital is used to increase expression of these enzymes in mice, and they can be isolated in E-R microsomes. The conversion of testosterone to estradiol is accomplished by one of these enzymes called aromatase. These enzymes process xenobiotic (ZEE-nuh-bie-AH-tik) substrates in phase I of drug metabolism. For 10 points, identify this class of heme-dependent enzymes partially named for the maximum absorption wavelength that occurs when they are complexed with carbon monoxide.

ANSWER: cytochrome **p450** mono-oxygenases [or **p450s**; or **CYPs**; prompt on cytochromes, heme(-dependent) mono-oxygenases, heme(-containing) mono-oxygenases, omega hydroxyl-ases; do not accept “cytochrome c”]

6. In a midterm election, crooked journalist Frank Kent fabricated a quote by this man that originated the conservative catchphrase “tax and spend.” This adviser dispatched the lesbian reporter Lorena Hickok to Appalachia to collect information on poverty. A lifelong chain smoker, he moved into the Lincoln Bedroom after chronic stomach cancer ended his hopes of a presidential run. Republicans afraid of the electoral influence this man wielded passed the Hatch Act, which still forbids federal employees from standing for political office. This man was called a “crumbling lighthouse” by Winston Churchill while coordinating negotiations between the Big Three during World War II. Harold Ickes squabbled over funding with the agency this man ran, which at its height employed over 3 million people. For 10 points, name this close friend of Franklin Roosevelt who administered the Works Progress Administration.

ANSWER: Harry (Lloyd) **Hopkins**

7. After moving to this city, Zhuang meets her older lover in a movie theater and refers to herself only as “Z” in a Xiaolu Guo (SHYAO-lu GWOH) novel. In a novel set in this city, Haroon Amir’s decision to leave his life as a bureaucrat and become a vaguely Buddhist New Age guru indirectly causes his son Karim to join the punk scene. This city, the setting of *A Concise Chinese English Dictionary for Lovers* and Hanif Kureishi’s *Buddha of Suburbia*, is where Obinze (oh-BIN-zay) finds work as a deliveryman and meets Cleotilde in Chimamanda Adichie’s *Americanah*. It is also the setting of a novel in which the overbearing Chanu drives his wife Nazneen into an affair with the radicalized Karim. Another novel set here opens as Samad Iqbal’s best friend, Archie Jones, attempts to gas himself in his car on New Year’s Day. For 10 points, name this city whose expatriate Bangladeshi community is explored in both Monica Ali’s *Brick Lane* and Zadie Smith’s *White Teeth*.

ANSWER: **London**

8. This type of modification occurs through the addition of ethyl di-azo-acetate to benzene in the Buchner reaction. Pyridine derivatives are produced through this type of reaction with the use of di-chloro-carbene in the Ciamician-Dennstedt (chah-MEE-chee-an DENN-shtet) rearrangement. It’s not a reduction, but the expulsion of nitrogen gas following treatment with nitrous acid drives this type of reaction in the Tiffeneau-Demjanov (TIFF-eh-“no” DEM-yah-noff) rearrangement. The *opposite* of this type of reaction occurs when certain alpha-halo-ketones are reacted with sodium hydroxide in the Favorskii rearrangement. In an example of the Beckmann rearrangement, cyclo-hexane reacts with hydroxyl-amine and acid to form capro-lactam through this type of reaction. In mass spec, it leads to the formation of the tropylium cation from a benzyl group. It’s not oxidation, but in the Baeyer-Villiger (“buyer”-vill-ig-er) rearrangement, cyclic ketones treated with mCPBA undergo this process to form lactones. For 10 points, name this type of rearrangement in which a cyclic system increases in size.

ANSWER: ring **expansion** [prompt on ring formation; prompt on rearrangement before mention; anti prompt on specific answers such as “forming an [n]-membered ring”]

9. In Proverbs, one of these things is called a “strong tower” and contrasted with the “strong city” signifying “the wealth of the rich.” In the opening lines of the Song of Solomon, a metaphor identifies one of these things as “perfume poured out.” These things are central to the implicit theology of Acts, in which Peter says he has no silver or gold before healing a lame beggar at the Beautiful Gate by using one of these things belonging to Jesus. In the Gospel of Mark, Jesus rebukes the apostles for attempting to stop a strange exorcist from using one of these things, saying, “Whoever is not against us is for us.” After wrestling with God, Jacob receives a new one of these things. In the Garden of Eden, Adam gives these things to the animals. For 10 points, name these things, one of which belonging to God is the subject of the Third Commandment, which warns not to take it in vain.

ANSWER: names

10. Recent performances of this opera have been influenced by the findings of Michael Kaye and Jean-Christophe Keck, who intend their critical edition of it to supersede earlier editions by Choudens and Fritz Oeser. This opera’s third act includes a spurious septet and the spurious aria “Scintille, diamant” (sin-TEEL, dee-uh-MAHNT) so it has frequently been flipped with the second act. Near the end of this opera, the protagonist insults his lover by singing a final verse of his song about a click-clacking dwarf. This opera was written so that four villains could be sung by the same bass-baritone and four love interests could be sung by the same soprano, though the demands of the coloratura aria “Les oiseaux dans la charmille” (lays wah-ZOH dahns lah shar-MEEL) often necessitates a separate singer to play Olympia. In this opera, Giulietta’s act opens with the duet “O nuit, belle nuit d’amour” (oh NWEET, “bell” NWEET dah-MOOR), an iconic barcarolle. For 10 points, name this opera about a German story writer by Jacques Offenbach.

ANSWER: *The Tales of Hoffmann* [or *Les contes d’Hoffmann*]

11. In a novel by a later author, this writer is nearly crushed by a falling bed he had rigged to his ceiling, and is ridiculed by the protagonist for the mixed metaphors in a speech he delivers so quietly the audience can’t hear him. This writer reproduced an oration by the Mingo chief Logan as part of his refutation of Count de Buffon’s theory that animals are smaller and people are stupider in America than in Europe. This writer’s only book includes the oft-quoted anti-slavery line “I tremble for my country when I reflect that God is just.” He wrote a long letter to Maria Cosway featuring a dialogue between his head and his heart. His responses to 23 “queries” about his home state were published as *Notes on the State of Virginia*. For 10 points, name this American author who articulated the “unalienable rights” of “life, liberty, and the pursuit of happiness” in The Declaration of Independence.

ANSWER: Thomas Jefferson

12. This process is the subject of a six-stage classification system developed by Anna Behrensmeier using data collected during fieldwork in the Amboseli Basin. Cernohouze and Solc created an empirical logarithmic profile for the growth of this process’s namesake “rind.” This process is responsible for the existence of an electron spin resonance due to submicroscopic reduced iron particles in lunar regolith and meteorites. The ZTR index quantifies the extent of this process by measuring the total concentration of zircon, tour-ma-line, and ru-tile. This process may produce concentric layers of saprolite or “honeycomb” features like tafoni. It’s not crystallization, but susceptibility to this process decreases when moving from orthoclase to quartz on the Goldich dissolution series. For 10 points, name this physical and chemical process that causes the *in situ* breakdown of rocks, as opposed to erosion.

ANSWER: weathering [or bone weathering; or weathering rind; or space weathering; or meteorite weathering; or spheroidal weathering; or honeycomb weathering; or physical weathering; or chemical weathering]

13. In a composition of this type and number, the first movement climaxes with a controversial triple forte passage in which the recapitulated theme in the bassoons, cellos, and basses often gets drowned out by the rest of the orchestra. In the last movement of that piece of this type and number, a sudden fortissimo C-sharp interrupts the quiet opening statement of a theme it later forces into F-sharp minor before being jerked back into the home key of F major. In Antonin Dvorak’s piece of this type and number, the English horn only plays three measures in the entire piece, when it restates a theme resembling birdsong introduced by the flute. Jean Sibelius pretended for years to be working on a piece of this type and number even after he burned the score in 1945. A B minor entr’acte from the incidental music to *Rosamunde* may have originally been intended as the finale to a piece of this type and number with two fully scored movements. For 10 points, name this type of piece and number, of which Schubert’s is known as the “Unfinished.”

ANSWER: Symphony No. 8 [or eighth symphony; prompt on partial answer]

14. This collection includes a dialogue-poem that ends when a man interrupts an eight-line stanza with the exclamation “Ah, no more,” and provides the final line. The speaker of another poem in this collection says, “within my heart I made closets, and in them many a chest...in those chests, boxes; in each box a till. Yet Grief knows all, and enters when he will.” In another poem in this book, the speaker recalls how his “soul lay out of sight, untuned, unstrung,” and asks the addressee to “cheer and tune my heartless breast.” This collection includes a sonnet composed entirely of stacked appositive phrases such as “the soul in paraphrase,” “the six-days’-world reposing in an hour,” and “something understood.” This book concludes with the line “So I did sit and eat” after that poem’s title personification welcomes a soul “guilty of dust and sin.” Two poems entitled “Prayer” and three entitled “Love” appear in this book of devotional verse. For 10 points, name this book, the major work of George Herbert.

ANSWER: *The **Temple***

15. One of these texts describes bathing on the second day of the Saturnalia with a “perilous” guest of whom it says, “once was enough.” Another of these texts uses the ironic formula “laudandum, ornandum, tollendum,” where “tollendum” means both “immortalized” and “killed off.” Johann and Wendelin (VEN-deh-lin) of Speyer introduced the printing press to Venice with an edition of these works in 1469. In 1345, Petrarch’s rediscovery of these texts in a Verona library helped revive Italian interest in classical literature. The *amanuensis* Tiro devised a shorthand to take down these texts, which discuss the author’s frustration with his cruel brother Quintus. Written in Greek-inflected Latin, these texts address the author’s friend Atticus on such issues as the assassination of Caesar, the ascent of Antony, and the death of Tullia. For 10 points, name this set of epistles authored by the greatest speaker of ancient Rome.

ANSWER: **Cicero’s letters** [or the ***Epistulae ad Familiares***; or ***Epistulae ad Atticum***; or the **letters** of Marcus Tullius **Cicero**]

16. This painting was originally displayed facing a depiction of a female model in it costumed as a male matador. Rolf Laessoe (“lasso”) argued that this painting is divided between a lozenge-shaped “painting-within-a-painting” and a larger “studio space,” bridged by a “painter” wearing a hat incongruous with the outdoor setting. The double meaning of the word “*grenouille*” (grun-WHEEL) is suggested by a figure in the bottom left of this painting, whose upper half depicts a bullfinch flying at the viewer. The artist of this painting deliberately broke the rules of perspective by painting a chemise-wearing woman in its background large enough to be nine feet tall. This painting adapts a cane-carrying man’s recumbent pose from that of a river god in Marcantonio Raimondi’s *Judgement of Paris*. This painting probably depicts the artist’s brother-in-law, Ferdinand Leenhoff (LEYN-hoff), with his brother Eugene and his model Victorine Meurent (myoo-RAHN). For 10 points, name this Edouard Manet painting of two clothed men having a picnic with a naked woman.

ANSWER: ***Luncheon on the Grass*** [or ***Dejeuner sur l’herbe***]

17. This philosopher noted how the concept of sound precedes any particular tune to illustrate “priority in eternity,” a concept he added to Aristotle’s priorities of time, preference, and origin. This philosopher exclaimed “Too late have I loved thee!” twice in an oft-excerpted passage from a meditation on memory paradoxes. Long before McTaggart, this philosopher argued that, because long metric feet can only be measured relative to short feet in the past, time has no existence except as “distension” of memory. He anticipated Descartes by asserting “If I am deceived, I am” regarding existence, and developed the “argument from analogy” to rebut solipsism. In Wittgenstein’s *Philosophical Investigations*, this philosopher’s account of learning words “repeatedly used in their proper places” illustrates the “picture theory” Wittgenstein rejects. This philosopher asked, “Give me chastity and continence - but not yet” in his major work, in which he agonized over his childhood theft from a pear tree. For 10 points, name this 5th-century Christian bishop who authored the *Confessions*.

ANSWER: St. **Augustine** of Hippo [or **Augustinus**]

18. A phenomenon named for these entities occurs under conditions given by the Ehlers-Geroch (AY-lertz geh-ROKE) theorem in the limit of small size and mass. The divergence of a congruence of these entities becomes infinite at a finite value of the affine parameter under appropriate energy conditions, according to the focusing theorem. Cotangent bundles are split into level sets of constant energy by the namesake flow of these entities. The Penrose-Hawking theorems state that spacelike and timelike singularities possess their namesake incompleteness. Writing the Euler-Lagrange equation for an action functional parameterized with respect to proper time, then multiplying by the inverse metric tensor, produces an equation named for these entities. For 10 points, name these paths that are traced out by a particle in free fall in general relativity and generalize the concept of a straight line to curved space.

ANSWER: **geodesics** [or **geodesic** motion; or **geodesic** congruence; or **geodesic** flow; or **geodesic** incompleteness; or **geodesic** equation; prompt on paths or trajectories or world lines; anti-prompt on light rays]

19. An obscure newspaper called the *Patriot* spread this idea, which sparked a craze for *ubhejane* (OOB-heh-jah-nay). Zackie Achmat organized red-shirted protesters against this idea. Matthias Rath, who profited from this idea by selling to Khayelitsha residents, was sued by the TAC. The *Washington Post* leaked a world leader's letter to Bill Clinton espousing this belief that approvingly cited Peter Duesberg. In East Germany, a report by Jakob Segal involving sheep in Fort Detrick, Maryland endorsed this belief; Segal testified to further a joint KGB-Stasi plot to spread it. When confronted on this belief on-air, a politician nicknamed "Dr. Beetroot" snapped, "I am not Manto to you." The Durban Declaration denounced this belief, whose acceptance by the Mbeki government from 2000 to 2005 may have killed up to 300,000 South Africans. For 10 points, identify this pseudoscientific belief which questions the viral origin of a sexually-transmitted immune deficiency syndrome.

ANSWER: **AIDS denialism** [or equivalents, such as **AIDS** isn't caused by HIV, **AIDS** was created by the CIA, **AIDS** can't be cured by retrovirals, etc.]

20. During World War II, this man headed the APA's committee to settle refugee psychologists like Kurt Lewin from Nazi Germany. To encourage an "idiographic" rather than "no-mo-thetic" approach to psychology, this man rigorously identified eight central dispositions in 301 letters from grieving mother Jenny Masterson. With Philip Vernon and Gardner Lindzey, this man devised a scale to measure an individual's values system along six dimensions. Wartime fearmongering inspired this man to work with Leo Postman on an experiment that defined the roles of "leveling" and "sharpening" in the spread of rumors. In his major work, this psychologist proposed the "least-effort principle" as an explanation for a phenomenon he measured on a five-point spectrum from "antilocution" to "extermination." This psychologist, whose brother Floyd wrote the textbook *Social Psychology*, created a three-part hierarchical theory of personality based on cardinal, central, and secondary traits. For 10 points, name this humanistic psychologist from Harvard who authored 1954's *The Nature of Prejudice*.

ANSWER: Gordon (Willard) **Allport**

TB. A preacher from this city's New Bethel Baptist Church became known as The Man with the Million Dollar Voice after recording and selling his sermons, such as "The Eagle Stirreth Her Nest." That preacher, C.L. Franklin, organized over one hundred thousand people at this city's "Walk to Freedom," where Martin Luther King gave a rough version of his "I Have a Dream Speech" two months before the March on Washington. The Supreme Court held that a district court could not redraw the lines of 53 school districts surrounding this city in *Millikan v. Bradley*. A police raid on a "blind pig" on 12th Street in this city sparked a riot that prompted Governor George Romney to mobilize the National Guard. For 10 points, name this city where that 1967 race riot was partially caused by a decline in the number of jobs in the automobile industry.

ANSWER: **Detroit**

1. The subject of this poem is described as “living in two worlds, impenitent as to one, and, as to one, most penitent, impatient for the grandeur that you need in so much misery.” For 10 points each:

[10] Name this late poem by Wallace Stevens. It begins by describing how “on the threshold of heaven, the figures in the street become the figures of heaven,” and is addressed to a man who spent his last years at the Convent of the Blue Nuns.

ANSWER: **“To an Old Philosopher in Rome”**

[10] “To an Old Philosopher in Rome” is addressed to this man. He collected his essays on Lucretius, Dante, and Goethe in *Three Philosophical Poets* and wrote about Oliver Alden in his “memoir in the form of a novel.”

ANSWER: George **Santayana**

[10] In “The Poetry of Barbarism,” Santayana examined Robert Browning and this poet of “When Lilacs Last in the Dooryard Bloom’d” as contrasting representatives of the title tradition.

ANSWER: Walt **Whitman**

2. This method, which is similar to descent in symmetry, can be used to approximate the relative d orbital energies of complexes with nonstandard geometries and different types of ligands. For 10 points each:

[10] Name this method in which the ligands of a complex are assigned energy contributions to each d orbital according to their positions on a cube and their electron-donating and -accepting abilities.

ANSWER: **angular overlap** method [or **AOM**]

[10] Some of the most common pi-donating ligands belong to this group of the periodic table. Elements in this group complete their octet to form anions with a charge of -1.

ANSWER: **halogens** [accept **Group 17**]

[10] In an octahedral complex, the d_{xy} , d_{xz} , and d_{yz} orbitals form the t_{2g} set, while these other two d orbitals form the e-g set. Name either.

ANSWER: **d_{z^2}** (dee-zee-squared) or **$d_{x^2-y^2}$** (dee-x-squared-minus-y-squared)

3. This artist fired a rifle at bags filled with paint to create her “Shooting Pictures.” For 10 points each:

[10] Name this French artist whose recurring subjects included fertile “Nana” figures. She frequently collaborated with her husband Jean Tinguely.

ANSWER: Niki de **Saint Phalle** [or Catherine-Marie-Agnès **Fal de Saint Phalle**]

[10] Saint Phalle’s colorful sculptures face off against Tinguely’s black mechanical ones in the Stravinsky Fountain, which was installed next to this Paris art museum designed by Richard Rogers and Renzo Piano.

ANSWER: **Pompidou Center** [or **Centre Pompidou**; or **Centre Georges Pompidou**]

[10] Saint Phalle spent over 20 years on a public sculpture park in Tuscany inspired by these objects. Christian Bale plays a screenwriter named Rick in a 2015 Terrence Malick film which is titled for one of these objects called the Knight of Cups.

ANSWER: **tarot** cards [accept **Tarot** Garden]

4. A team in Marseilles was astounded to discover the mimivirus, a genus of giant viruses the size of a small microbe, but they were even more surprised to discover that the mimiviruses harbored their own viral parasite. For 10 points each:

[10] Name that subviral parasite, the first known virophage, that coinfects amoebas that are already infected with the mimivirus. Once inside the cell, this satellite virus commandeers the amoeba's synthetic machinery for its own reproduction and hampers mimivirus replication.

ANSWER: **Sputnik**

[10] The delta agent virus is a satellite virus of this other virus that is responsible for cirrhosis and hepato-cellular carcinoma. A three course vaccine is administered for protection against this partially-double stranded DNA virus.

ANSWER: **hepatitis B** virus [or **HBV**; prompt on hepatitis; do not accept other forms of hepatitis]

[10] One of these catalytic RNA molecules cleaves the delta satellite's single stranded RNA genome into pieces which are re-ligated into a circular molecule to allow replication. Other examples of these kinds of enzymes include peptidyl transferase in the ribosome and self-splicing introns.

ANSWER: **ribozymes**

5. The heroine of this poem asks her lover, "Why dost thou seek religion? Is it because acts are not lovely, that thou seekest solitude?" and affirms free love, asking, "Can that be Love, that drinks another as a sponge drinks water?" For 10 points each:

[10] Name this early prophetic book by William Blake. The companion piece to *The Book of Thel*, it tells how Bromion rapes Oothoon (oh-OH-tho-on) before she can consummate her love for Theotormon, who consequently disowns her and weeps in jealousy on the threshold of Bromion's cave.

ANSWER: **Visions of the Daughters of Albion**

[10] Blake's longest poem is titled for this Biblical city. The lyric beginning "And did those feet in ancient time" that appears at the beginning of Blake's *Milton* is often anthologized under this title.

ANSWER: **Jerusalem**

[10] Many of Blake's prophetic books concern the cyclical tension between a youthful revolutionary embodying passion and a wintry tyrant embodying reason who is one of the four Zoas. Name either.

ANSWER: **Orc** and **Urizen** [accept either answer]

6. In Orphic cosmogony, these deities retrieve the genitals of Zagreus after his dismemberment. For 10 points each:

[10] Name these deities that were central to the Samothracian mysteries. They are variously said to be twin sons of Hephaestus, the father-son pair Axiocersus and Cadmilus, or some combination of underworld gods and goddesses.

ANSWER: **Cabeiri** (kah-BEER-ee) [or **Kabeiroi**]

[10] The Cabeiri are often conflated with the Curetes (koo-REE-tees), the Corybantes (kor-ee-BAN-tees), and the Dactyls, all of whom were involved in this event. Rhea tricked Cronus into swallowing a stone shortly after this event, which took place at Mt. Ida on Crete.

ANSWER: **birth of Zeus**

[10] The Cabeiri belong to this class of deities because they were propitiated in a way that contrasts with Olympian-style rituals. When prefixed with "auto-," this Greek term refers to mythological figures who emerge from the earth.

ANSWER: **chthonic** deities [accept auto**chthonic** or auto**chthonous** or auto**chthons**]

7. This thinker developed one of his theoretical frameworks by expanding Karl Bühler's "organon model." For 10 points each:

[10] Name this linguist who characterized poetic language by its projection of the principle of equivalence from the axis of selection to the axis of combination.

ANSWER: Roman **Jakobson**

[10] Jakobson's model of communication described this many language functions. Lawrence Kohlberg's theory of moral development includes this many stages.

ANSWER: **six**

[10] This language function serves the purpose of checking, opening, or closing the communication channel. Examples include direct questions like "Can you hear me?" and meaningless small talk about the weather.

ANSWER: the **phatic** function

8. G.E. Mingay and J.D. Chambers argued that this process took place from 1750 to 1880, since crop yields in England through much of the 19th century were 80% higher than the continental average. For 10 points each:

[10] Give the common name for this process aided by the inventions of Jethro Tull and the evangelism of Coke of Holkham, which allowed the English population to triple between 1750 and 1850.

ANSWER: the **Agricultural Revolution**

[10] A major innovation of the Agricultural Revolution was supplementing the three-field system with this crop. Charles Townshend gained his nickname for promoting this crop, which allowed farmers to eliminate 80% of fallow land.

ANSWER: the **turnip**

[10] This major econometric debate on the origin of capitalism began when its namesake published a 1976 article in *Past and Present*. Its namesake challenged Michael Postan and Emmanuel LeRoi Ladurie's Neo-Malthusian theories in favor of one that centered changes in property rights.

ANSWER: the **Brenner** Debate

9. The most important of these holidays is the birthday of Guru Nanak. For 10 points each:

[10] Name these Sikh holidays which involve celebrating important events in the lives of gurus with an akhand path, a complete reading of the Adi Granth.

ANSWER: **Gurpurbs** [or **Gurpurab**]

[10] The non-Gurpurb holiday Vaisakhi commemorates Guru Gobind Singh's creation of this body of initiated Sikhs.

ANSWER: **Khalsa**

[10] One major Gurpurb commemorates the martyrdom of this ninth Guru, who was executed for refusing to convert to Islam.

ANSWER: **Tegh Bahadur**

10. This movement was started in Hartford, Connecticut by five dry goods store clerks who teamed up to protect Republican speakers at rallies. For 10 points each:

[10] Name this militant group of young white men wearing black capes and wielding torches. Tens of thousands of these 19th-century Bernie Bros rallied for Abraham Lincoln during the election of 1860.

ANSWER: **Wide Awakes**

[10] Diametrically opposed to the Wide Awakes was this group of radical pro-slavery secessionist politicians led by Robert Barnwell Rhett, Louis Wigfall, and William Yancey.

ANSWER: **Fire-Eaters**

[10] The Wide Awakes saved most of their vitriol for this Democrat, who lost the election of 1860 after Southern Democrats split the party's votes by nominating John C. Breckenridge to run against him.

ANSWER: Stephen **Douglas**

11. The Bennett acceptance ratio is an efficient method to compute the difference in this quantity between two systems. For 10 points each:

[10] Name this quantity whose upper bound is given by the Gibbs-Bogoliubov inequality. This quantity is the Legendre transform of internal energy.

ANSWER: **Helmholtz free energy** [prompt on free energy or A or F]

[10] Two answers required in order. The Maxwell relation for Helmholtz free energy states that the partial of pressure with respect to temperature at constant volume equals the partial of one quantity with respect to another quantity at constant temperature. Name both quantities, with the one you are taking the partial of coming first.

ANSWER: partial derivative of **entropy** with respect to **volume** [or **entropy** and **volume**; prompt on S and V or partial S partial V; do not accept “volume and entropy” or “V and S” or “partial V partial S”]

[10] In the canonical ensemble, Helmholtz free energy equals negative kT times the natural log of this function, which serves as a normalization factor for the probability that a system occupies a particular microstate.

ANSWER: **partition** function [prompt on Z]

12. The third act of this play jumps 75 years forward and features its cast performing a Gilbert and Sullivan-esque musical pageant. For 10 points each:

[10] Name this Anne Washburn play in which Quincy, Susannah, Gibson, and other survivors of an apocalyptic event gather together to attempt to recount the plot and dialogue of the “Cape Feare” episode of *The Simpsons*.

ANSWER: **Mr. Burns, a Post-Electric Play**

[10] *Mr. Burns, a Post-Electric Play* was premiered by this city’s Woolly Mammoth Theater Company. Its residents may watch contemporary Shakespeare adaptations at the Folger and larger productions at the Kennedy Center.

ANSWER: **Washington**, D.C. [or **D.C.**]

[10] This playwright’s *November* follows President Charles Smith over one day at the White House. He is better known for a two-character play in which John loses his chance at tenure after Carol reports him for sexual harassment.

ANSWER: David **Mamet** [or David Alan **Mamet**] [the play is *Oleanna*]

13. This book criticizes Marx for attributing predictive powers to Hegel’s dialectic rather than solely inspirational powers, and it identifies national pride as a precondition for self-improvement as a country. For 10 points each:

[10] Name this book adapted from its author’s 1997 William E. Massey, Sr. Lectures. It favorably contrasts the agency of the progressive Left prior to the Vietnam War with the new “spectatorial” Left comprising pessimistic, theoretically-minded academics in the tradition of Michel Foucault.

ANSWER: **Achieving Our Country**: *Leftist Thought in Twentieth-Century America*

[10] *Achieving Our Country* was written by Richard Rorty, who also wrote this book advocating what he called “epistemological behaviorism” against representational theories that view knowledge as the title object.

ANSWER: **Philosophy and the Mirror of Nature**

[10] Rorty places himself in the tradition of this school of thought, which was founded by Charles Sanders Peirce (“purse”) and called “a new name for some old ways of thinking” in a book by William James.

ANSWER: **pragmatism** [or obvious equivalents]

14. Naquasia LeGrand helped launch a series of fast-food strikes that furthered this goal in New York City. For 10 points each:

[10] Name this major goal of contemporary organized labor, which has been achieved in Seattle and California. Many American labor unions participate in a movement called the “fight for” it.

ANSWER: **fifteen-dollar minimum wage** [or **Fight for 15**; or equivalents like **raising the minimum wage to fifteen dollars**; prompt on raising the minimum wage; prompt on fifteen dollars]

[10] The Fight for 15 movement was originally funded by this labor union, which is currently led by Mary Kay Henry. It runs the Justice for Janitors campaign, and its healthcare arm is the largest healthcare union in North America.

ANSWER: **SEIU** [or **Service Employees International Union**]

[10] In 2005, the SEIU split from the AFL-CIO and formed this rival coalition of labor unions. It currently consists of the SEIU, the Teamsters, and the United Farm Workers.

ANSWER: **Change to Win**

15. Antonio Vivaldi's Opus 10 is a set of six concertos for this instrument, the first of which is in F major and is known as "La tempesta di mare," or "The Storm at Sea." For 10 points each:

[10] Name this instrument. Hundreds of concertos were written for it by Johann Joachim Quantz, who also wrote a treatise on playing it.

ANSWER: flute

[10] An iconic chromatic flute solo opens this tone poem by Claude Debussy, which was inspired by a Stéphane Mallarmé poem. It was later used as the score for a controversial ballet choreographed by Vaslav Nijinsky.

ANSWER: Prelude to the Afternoon of a Faun [or Prelude à l'après-midi d'un faune]

[10] This contemporary American composer wrote a *Lyric Concerto* for flute and orchestra. His other works include a complete setting of *Songs of Innocence and of Experience*, and he is known for recording and writing piano rags such as his *Three Ghost Rags*.

ANSWER: William Bolcom

16. Analyzing the sacrifice of Isaac, this book contrasts the Biblical text's ambiguities and "tyrannical" claim to truth with the form of Homer's treatment of Odysseus's encounter with Eurycleia (yur-ih-CLAY-ah). For 10 points each:

[10] Name this book of literary criticism by Erich Auerbach (OW-er-bok). It relies heavily on close readings of canonical texts due to the limited resources available to Auerbach when he was teaching in exile at Istanbul University.

ANSWER: Mimesis: The Representation of Reality in Western Literature [or Mimesis: Dargestellte Wirklichkeit in der abendländischen Literatur]

[10] Aristotle outlined an influential mimetic theory of art in this work, which emphasizes the role of catharsis in the experience of tragedy. It is widely believed to be a set of lecture notes compiled by his students rather than an intact treatise.

ANSWER: the Poetics [or On Poetry; or About Poetry; or Peri poietikes; or De Poetica]

[10] Later champions of mimesis as a standard of aesthetic evaluation included Samuel Johnson. In a frequently quoted passage from his preface to Shakespeare, he wrote that "nothing can please many, and please long, but just representations of [*this two-word phrase*]."

ANSWER: general nature

17. Plaster casts of severed body parts, including an ear, a hand, and a penis, accompany this image in a work sometimes interpreted as an allegory for its artist's sexuality. For 10 points each:

[10] Identify this image, represented in dripped encaustic. Four cut-off faces of a woman with progressively-relaxing lips appear above this image in a 1955 painting in the National Gallery.

ANSWER: a target [or a bullseye]

[10] In addition to creating *Target with Four Faces*, this pop artist is famous for representations of everyday objects, especially the American flag.

ANSWER: Jasper Johns

[10] Johns created a wax cast of the foot of this friend of his, a fellow gay artist. He is known for collaborating on the works of his lover, John Cage.

ANSWER: Merce Cunningham

18. Name these historians discussed in Edmund Wilson's *To the Finland Station*, for 10 points each.

[10] This 19th century French historian, a rabid anti-clericalist, coined the term "Renaissance" to mark a departure from the detestably theocratic Middle Ages. He wrote a famous *History of the French Revolution*.

ANSWER: Jules Michelet

[10] Edmund Wilson traced the influence of this Italian's cyclical theory of history on Michelet, emanating from this man's *The New Science*.

ANSWER: Giambattista Vico

[10] Wilson relates Marx's venomous disputes with this fellow German socialist, who founded the workers' association that became the SPD. His ideas are the principal target of the *Critique of the Gotha Program*.

ANSWER: Ferdinand Lassalle

19. This standard was outlined in Roy Fielding's doctoral dissertation at UC Irvine. For 10 points each:

[10] Identify this web services architecture that exposes resources and data, as opposed to SOAP, which instead exposes logical operations. The data returned from services built around this architecture must be cacheable.

ANSWER: **REST** [or **Representational State Transfer**]

[10] A RESTful architecture uses methods, such as GET and POST, from this web protocol. Tim Berners-Lee developed this protocol, which is used to transmit data across the World Wide Web.

ANSWER: **HTTP** [or **Hypertext Transfer Protocol**]

[10] REST architectures have this property, meaning that each request to the service is independent of future and previous requests. Firewalls with this property do not track data about the network they are protecting.

ANSWER: **stateless** [do not accept or prompt on "stateful", which is the exact opposite]

20. Emperor Kotoku implemented this set of policies, which included the abolition of private landholding and a tax based on population instead of land use. For 10 points each:

[10] Name this 645 A.D. set of centralizing reforms inspired by Tang Dynasty China, which brought Japan under the control of the imperial court.

ANSWER: **Taika** Reforms [or **Taika** no Kaishin; or Great Reformation of the **Taika** Era]

[10] The Tang Dynasty capital of Chang'an was the inspiration for the layout of this Japanese capital, which names the era of classical Japanese history from 710 to 794.

ANSWER: **Nara**

[10] The Taika reforms were implemented after the Isshi Incident, in which Naka no Oe assaulted the patriarch of this dominant clan in front of the emperor. Nakatomi no Kamatari received the name "Fujiwara" for helping eliminate this clan.

ANSWER: **Soga** clan