

1. One book by this man examined the "collective effervescence" inherent to communal behaviors that separated the sacred from everyday life. This man claimed that certain actions, objects, and beliefs can gain "facticity" and become coercive forces on individuals in a book that introduced the scientific method to the title discipline. Another book by this formulator of "social facts" outlined the transition to increased division of (*) labor from mechanical solidarity. This author of *Rules of the Sociological Method* described fatalistic, egoistic, and altruistic forms of an action also driven by an alienation called "anomie". For 10 points, name this French founder of sociology who wrote *The Division of Labor in Society* and *Suicide*.

ANSWER: Emile Durkheim [or David Émile Durkheim]

<Spencer>

2. This man threw his own ring into the sea to challenge the paternity of a visiting hero. One of this man's children drowned in a honey barrel until revived by Polyidus, and another son of this man was murdered after winning another city's athletic games. This father of Androgeus won a war against Megara when the purple lock was cut from his foe Nisus's head. While wandering, he posed a challenge involving a spiral seashell and an (*) ant before the daughters of Cocalus overheated his bath to kill him. With his brother Rhadamanthys and Aeacus, this ruler became a judge of the dead. His wife Pasiphae obsessed over a white bull. For 10 points, name this captor of the engineer Daedalus, a cruel king of Crete who oversaw the building of the Labyrinth.

ANSWER: Minos

<Jackson>

3. Applying perturbation theory to states with this property causes the denominator to go to zero. If a system has this property in the ground state, the entropy is nonzero at absolute zero. For a particle in a multidimensional box, this condition occurs when more than one dimension of the box is the same. This property is removed in octahedral complexes by elongation along the z axis in the Jahn-Teller effect. The Zeeman and Stark effects (*) break this property via splitting. It occurs when the Hamiltonian of a system has multiple eigenvectors with the same eigenvalue. The pressure arising from this phenomenon balances gravity in a white dwarf below the Chandrasekhar limit. For 10 points, name this condition in which a single energy level has more than one state.

ANSWER: degenerate [or degeneracy; accept word forms]

<Mukherjee>

4. The Iberian Bacurius launched an unauthorized cavalry attack to begin this battle, but was rebuffed by the return of the losing side's foraging cavalry. This battle ends a work by Ammianus Marcellinus that records how the losing commander was resting in a building when enemy troops happened by and fortuitously decided to burn it out of boredom. The losing commander was incorrectly told that the enemy had only ten thousand men, and chose not to wait for the reinforcements of (*) Gratian before marching to the victors' wagon circle. In the wake of this battle, Thrace was ravaged for four years by the forces of Fritigern. Emperor Valens was killed fighting the Goths at, for 10 points, what 378 battle regarded as the collapse of the Western Roman Empire?

ANSWER: Battle of Adrianople [or Battle of Hadrianopolis]

<Liao>

5. One artist from this country depicted incompetent bureaucrats in such works as *Pillars of Society* and *Republican Automatons*. Another artist from here blended several colors and geometric forms in such works as *Fighting Forms* and *The Fate of the Animals*. An artist from this country known for his “street scenes” showed himself without a hand in his *Self-Portrait as a Soldier*. This country’s New (*) Objectivity art movement, as well as earlier art movements, was denounced at a 1937 exhibition that labeled its artists “degenerate.” Those movements included such members as George Grosz, Franz Marc, and Ernst Kirchner. For 10 points, name this country home to the groups Die Brücke and Der Blaue Reiter. ANSWER: Federal Republic of Germany [or Nazi Germany; or Weimar Republic; or Weimar Germany; do not accept or prompt on "West Germany"]

<Berend>

6. During this event, a cigarette case wrapped in a tight knot is presented as a distraction, and an earring is left behind in an adjacent apartment. Information about this event is freely given over a cup of tea at the Crystal Palace, but this topic is avoided when a man lies about the day in which two painters were at work. This event is foreshadowed by several villagers beating a mare to death in one of its perpetrator's (*) dreams. An article about "great men" who are exempt from ordinary moral codes is brought up in an investigation into this event by Porfiry Petrovich. This action was carried out to rid society of a parasite, not for financial gain. For 10 points, name this crime for which Raskolnikov is punished in a Dostoevsky novel.

ANSWER: Rodion Romanovich Raskolnikov's murder of the pawnbroker Alyona Ivanovna and her sister Lizaveta Ivanova in *Crime and Punishment* [accept the murder in Crime and Punishment or the crime in Crime and Punishment; accept the murder of Alyona Ivanovna; accept equivalents of Raskolnikov's crime or the murder committed by Raskolnikov BEFORE "Raskolnikov" is read and prompt thereafter; prompt on partial or nonspecific answers like "crime" or "murder"]

<Gupta>

7. In chandelier cells, these structures are arranged into cartridges. During growth, these structures are repelled by the interaction between Slit and Robo receptors, and the growth cone is found on the tips of these structures during development. Upon damage, these structures die in an anterograde manner in a process called Wallerian degeneration. Dyein is responsible for (*) retrograde transport down these structures. The ends of these structures contain vesicles docked at SNARE complexes, which are released upon influx of calcium. These structures, which are capable of saltatory conduction because they are covered in myelin sheaths, conduct action potentials from cell bodies to synapses. For 10 points, name these long projections of neurons.

ANSWER: axon [prompt on neuron]

<Mukherjee>

8. The movements of this composer’s last completed work originally bore the titles “Noon,” “Twilight,” and “Midnight,” and that work features the composer's only use of an alto saxophone, in a notable solo in its opening "Non allegro" movement. Another work opens with eight bars of bell-like chords from the soloist before octave strings and clarinets begin the C minor primary subject of the movement. This composer quoted the "Dies Irae" in his (*) *Symphonic Dances* and in a work whose 18th variation inverts the melody of the 24th caprice by an earlier composer. Also noted for his extremely challenging second and third piano concertos, for 10 points, name this Russian composer of *The Isle of the Dead* and *Rhapsody on a Theme of Paganini*.

ANSWER: Sergei Rachmaninoff

<Rosenberg>

9. In one of this author's works, Ben Silverman is tasked with reuniting Al Lewis and Willie Clark, two ex-vaudeville performers who now hate each other, for a CBS special. In another of his plays, poker players discuss one of their friends sending a "suicide telegram". A third play by this man is set on the top floor of a New York brownstone and sees Corrie try to convince her new husband Paul to act more (*) impulsively. This author of *Sunshine Boys* wrote a series of autobiographical plays including *Biloxi Blues* and *Brighton Beach Memoirs*, as well as a play in which the messy Oscar Madison lives with the fussy neat freak Felix Ungar. For 10 points, name this playwright who wrote *Barefoot in the Park* and *The Odd Couple*.

ANSWER: Neil Simon [or Marvin Neil Simon]

<Cheyne>

10. Protests against this practice led to the Supreme Court case *United States v. O'Brien*. The death of two Hutterites inspired this practice to include the CPS, whose members were systemically starved in a University of Minnesota study that helped inform the Marshall Plan. Pamphlets opposing this policy prompted the case of *Schenck v. United States*. Gerald Ford's pardon of Richard Nixon was paired with an (*) amnesty provision for those who did not comply with this policy. A \$300 fee that excluded men from being affected by this policy was one of the causes for a large riot in New York City in 1863. People opposed to this policy would often burn namesake cards during the Vietnam War. For 10 points, name this policy of mandatory military service.

ANSWER: Conscription [or the Draft or Selective Service; prompt on "war"]

<Bentley>

11. Both acruate and sinuous rilles were believed to have been created by an exotic type of this substance, one type of which is called "blocky" because of its huge quantities of andesite. Diatremes are an example of structures known as this material's namesake spine. This substance may create a "roof" over its namesake channel to create its namesake tubes, which resemble (*) caves and may run for miles. Circular, fine-grained, rocks that are underwater makeup the "pillow" form of this hardened substance. These thixotropic liquids can be classified as *aa* or *pahoehoe*. For 10 points, name this liquid material that is spewed from a volcano during an eruption, which eventually solidifies into rock on the earth's crust.

ANSWER: lava [do not accept or prompt on "magma"]

<Jose>

12. This character falls asleep during the thirty minutes he spends in a cave suspended from a rope, dreaming that he was there for three days and three nights. In one scene, he says 320 prayers over a concoction made of oil, wine, salt, and rosemary that he claims to be the balsam of Fierabras. This character frees several galley slaves, including the rascal Gines de Pasamonte. The narrator continuously refers to (*) Cide Hamete Benengeli's history of this man, who promises to make one of his companions the governor of an island and attacks several dozen figures that he thinks are giants, but which turn out to be windmills. For 10 points, name this peasant from La Mancha who ropes Dulcinea and Sancho Panza into his chivalric fantasy in a novel by Cervantes.

ANSWER: Don Quixote [or Alonso Quijano, either part being acceptable]

<Gupta>

13. A holder of this office known as "Red Mike" gave a 1922 speech against the nefarious "interests." This post was held by John Hyland and William O'Dwyer, who secured expansive powers for Robert Moses. One holder of this office had an affair with Judith Nathan and backed Chief of Police Bill Bratton's CompStat program in a major campaign targeting (*) graffiti and petty crime. John Lindsay defeated William F. Buckley to claim this office, which was held by Abraham Beame when Gerald Ford apocryphally told his city to "drop dead". Ed Koch was one of the men to serve in this post, whose holder lives in Gracie Mansion. For 10 points, name this office held by Rudy Giuliani during the September 11 attacks.

ANSWER: Mayor of New York City

<Bentley>

14. The temperatures at which this quantity is the same are linearly related according to Duhring's rule. It is measured using an isoteniscope. The log of this quantity is equal to A minus the quantity B over C plus T in one equation. This quantity is multiplied by the Poynting correction factor and the activity coefficient in order to find fugacity. This quantity is graphed against mole fraction in order to determine (*) deviations from ideality. In general, this quantity equals its value for a pure solvent times the mole fraction of the solvent according to Raoult's Law. Volatile substances have a large value for it. This quantity is equal to the atmospheric pressure at the boiling point. For 10 points, name this quantity, the pressure of a gas above a liquid.

ANSWER: vapor pressure [prompt on partial answer; prompt on "volatility"]

<Silverman>

15. A massive scandal ensued after Canadian troops in this country - possibly in a state of Mefloquine psychosis - tortured and murdered Shidane Arone. This country lost its Soviet sponsorship in the 1978 Ogaden War. A conflict in this country popularized the term "technical" for improvised fighting vehicles and followed the death of Siad Barre. Following a battle in this country, Les Aspin resigned as Defense Secretary under (*) Clinton . Hawiye clans like the Habr Gidir dominated this country's USC, whose leader Muhammed Farrah Aidid was targeted in Operation Restore Hope. This country's capital erupted in violence in 1993 when two US Back Hawk helicopter were shot down. For 10 points, name this country on the horn of Africa that saw the Battle of Mogadishu.

ANSWER: Federal Republic of Somalia [or as-Sumal]

<Bentley>

16. According to one tradition, everyone in this location is 33 years old, and this place contains a pond called Kauthar. One group of people found here have transparent skin and are completely hairless except for their heads. Tradition says that this place has eight doors, one of which is designated for the punctual, and its inhabitants include the "ten designated companions". The highest rank in this place has the name "Firdaus". This place contains (*) rivers of wine, honey, and milk, and its inhabitants include *houri*, who have wide, pearl-like eyes. Conditions for entering here include following the five pillars. For 10 points, name this place where martyrs supposedly receive 72 virgins after the Day of Resurrection.

ANSWER: Islamic Paradise [or heaven in Islam; accept Jannah; accept Garden of Eden because some Islamic sources equate Eden and Paradise]

<Mukherjee>

17. This region's east is marked by the Greater Khingan mountains. A much-publicized ghost town outside its city of Ordos was supposed to house a million people, but very few people have moved there. The world's largest rare earth metal mine is at Bayan Obo west of this region's megacity of Baotou. This region's capital is Hohhot, and a national government is planting trees and reclaiming farms for a "Great Green (*) Wall" in this region. The Yellow River reaches its northernmost point in this region, where the Gobi desert's rapid expansion is displacing yurt-dwelling nomads. For 10 points, name this Chinese autonomous region that remained part of China after the independence of a country centered at Ulaanbaatar.

ANSWER: Inner Mongolia Autonomous Region [or Nei Menggu Zizhiqu]

<Jackson>

18. One thinker from this country argued that "vital reason" leads to "historical reason," critiqued the self-satisfied "mass-man" in *The Revolt of the Masses*, and called this country "invertibrate". A debate in this country over its New Laws hinged on whether indigenous peoples could be enslaved. A 20th-century thinker born in this country divided being into matter, essence, spirit and truth; that thinker from here argued that philosophy begins (*) in *medias res* with pre-rational beliefs called "animal faith" and wrote while at Harvard that "Those who cannot remember the past are condemned to repeat it." For 10 points, name this birth country of José Ortega y Gasset and George Santayana, home to a medieval school at Salamanca.

ANSWER: Kingdom of Spain [or Reino de España]

<Jackson>

19. Strangers visiting this character's former home often have questions about the "depth and passion" of an "earnest glance," whose primary characteristic is a "spot of joy." This character's spouse chooses "never to stoop" and lacks the skill in speech to tell her "Just this or that in you disgusts me." This character is criticized for failing to appreciate the "gift of a (*) nine-hundred-years-old name," which pleases her only as much as a "bough of cherries some officious fool broke in the orchard for her." This character now exists only behind a curtain as a portrait made by Fra Pandolf. This woman "liked whate'er she looked on, and her looks went everywhere." For 10 points, name this woman who had a heart "too soon made glad" in a poem by Robert Browning.

ANSWER: the duchess of Ferrara [accept "My Last Duchess"]

<Mehigan>

20. Cinematographer Floyd Crosby based the look of this film on the Civil War photography of Matthew Brady. This movie was the last written prior to the blacklisting of Carl Foreman, and it includes Morgan Finley as the cowardly preacher Mahin and Grace Kelly as the protagonist's fiancée Amy Kane. This movie's plot angered John Wayne, who starred in the "response" film *Rio Bravo*. In this Fred Zinneman-directed film, which proceeds in real time, Ian MacDonald plays the leader of the (*) Miller gang. For 10 points, name this 1952 film in which Will Kane, the marshal of Hadleyville, is played by Gary Cooper and has trouble finding help for a confrontation destined to occur when a train arrives at the title time.

ANSWER: High Noon

<Weiner>

21. This tissue is suppressed in a debilitating side effect of azathioprine, and examination of this tissue is required for diagnosis of HLH. One group of cells found in this tissue secrete colony-stimulating factors. Normoblasts are normally found in this tissue, and, like adipose tissue, the stroma of this substance contains mesenchymal stem cells. This substance is harvested from the iliac crest, which is near the hip. (*) Transplants of this substance require total body irradiation and are often used to treat leukemia. This substance comes in yellow and red varieties, the latter of which contains hematopoietic stem cells. For 10 points, name this substance in which blood cells are synthesized, a fatty tissue found within bones.

ANSWER: bone marrow

<Mukherjee>

22. This figure triggered a political split that pitted the "Whites" against the "Greys." He faced an uprising from the "Ugly Companions," a faction of the "rabid ones," or *Arrabbiati*, who opposed him. This figure dispatched roving bands of violent pre-teens called the *fanciulli*, and lost face after a rain storm interrupted a highly anticipated trial-by-fire. He took power after convincing Charles VIII of France to (*) spare his city, leading to the expulsion of Piero the Unfortunate. This author of "On the Ruin of the Church" led from the convent of San Marco and was excommunicated by Pope Alexander VI. Ruling after the exile of the Medici, for 10 points, name this monk who carried out the Bonfire of the Vanities in Florence.

ANSWER: Girolamo Savonarola

<Bentley>

23. This male's lifelong home was stacked on Mount Ossa by the Aloadae, and he returned a sword stolen by Acastus. A daughter of this figure, who fled to avoid telling him about her pregnancy and became a horse, was Melanippe. This son of Philyra was killed because Pholus opened a jar of wine, and he gave the gift of an ashen spear at the wedding of Thetis and Peleus. This resident of Mount Pelion offered to take (*) Prometheus' place after he was shot with a poisonous arrow by Heracles. Uniquely among his species, he was not a descendant of Ixion. This son of Cronus introduced medicine to Asclepius before teaching Peleus, Jason, and Achilles. For 10 points, name this mentor of many Greek heroes, a wise centaur.

ANSWER: Chiron

<Silverman>

24. In one poem by this author, a passenger on Charon's ferry disembarks and watches "the boat disappear on the black waters of the Lethe". In another poem, he claims to be "talking to myself again" and admits to the title country "I've given you all and now I'm nothing." A "lonely old grubber" asks "Are you my angel?" and "What price bananas?" in a poem by this author of (*) "America"; that poem's speaker poses the question "which way is your beard pointing tonight?" to Walt Whitman. This author repeated the mantra "Holy!" and reassured Carl Solomon "I'm with you in Rockland" in a poem that opens by declaring "I saw the best minds of my generation destroyed by madness". For 10 points, name this Beat poet of "A Supermarket in California" and "Howl".

ANSWER: Allen Ginsberg [or Irwin Allen Ginsberg]

<Gupta>

1. For 10 points each, answer the following about the Italian composer Luigi Boccherini.

[10] Boccherini was a virtuoso player of this instrument, which was also played by Mstislav Rostropovich, Jacqueline du Pré, and Pablo Casals.

ANSWER: violon**cello**

[10] Boccherini's String Quintet in E Major contains a famous one of these pieces, a dance in $\frac{3}{4}$ time often used as the third movement in Classical symphonies.

ANSWER: **minuet** [or **minuetto**; or **menuet**]

[10] Much of Boccherini's life was spent in this city, whose "Night music" influenced his String Quintet in C Major. Mikhail Glinka wrote a piece titled "Souvenirs of a Summer Night" in this city.

ANSWER: **Madrid**

<Berend>

2. Approximately one hundred thousand people have been displaced in the Kachin war, which re-ignited in June 2011 as one of many theaters of this country's civil war. For 10 points each:

[10] Name this country in which Aung San Suu Kyi leads the National League for Democracy.

ANSWER: Union of **Burma** [or Pyidaungzu **Myanma** Naingngandaw; or Union of **Myanmar**]

[10] In April 2013, Buddhist monks were accused of participating in a genocide against this Muslim ethnic group in Burma's Rakhine state.

ANSWER: **Rohingya**

[10] This leader of the military junta from 2007 to 2011 retired from the military and ran for president of Burma as a civilian in 2011; he currently holds that post under the banner of the Union Solidarity and Development Party.

ANSWER: **Thein Sein**

<Weiner>

3. This war broke out after its namesake Sauk leader refused to leave the Rock River Valley in Illinois. For 10 points each:

[10] Identify this 1832 conflict that culminated with an Indian defeat at the massacre of Bad Axe River.

ANSWER: First **Black Hawk**'s War

[10] This president's only military service came as a militiaman in the Black Hawk War. Before becoming president, he debated Stephen A. Douglas.

ANSWER: Abraham **Lincoln**

[10] This tribe's "prophet", White Cloud, recruited many of its members to fight in the Black Hawk War. Now known as the Ho-Chunk, this tribe was once divided into the Earth and Air moieties and lived around Green Bay, Wisconsin.

ANSWER: **Winnebago** Tribe [or **Puants** or **Stinkards**]

<Bentley>

4. Characters in this novel include a truck driver named Hoshino who discovers an affinity for Beethoven's *Archduke Trio* and a mysterious figure who takes the form of the Johnnie Walker logo and kills cats to make a flute from their souls. For 10 points each:

[10] Name this 2002 novel, which centers on a mentally challenged cat-finder named Mr. Nakata and a 15-year-old runaway who has an alter ego called "the boy named Crow".

ANSWER: **Kafka on the Shore** [or **Umibe no Kafuka**]

[10] *Kafka on the Shore* was written by this contemporary Japanese author of *The Wind-Up Bird Chronicle*, *Norwegian Wood*, and *1Q84* ("one Q eighty-four").

ANSWER: Haruki **Murakami** [accept names in either order]

[10] Murakami's first three novels--*Hear the Wind Sing*, *Pinball, 1973*, and *A Wild Sheep Chase*--form a trilogy named for one of these rodents. These creatures are the subject of Winston's nightmares, and threatened torture, in *1984*.

ANSWER: **rats** [or the Trilogy of the **Rat**]

<Carson>

5. Devotees of this god were centered at Arcadia, and he used the reed pipe to create a new wind instrument after his failed pursuit of the nymph Syrinx. For 10 points each:

[10] Name this demi-god of shepherds who was usually depicted as a half-goat.

ANSWER: **Pan** [or **Faunus**]

[10] In one story, this nymph rejected Pan's love, so Pan's shepherds to tear her body apart. Zeus once used this nymph to distract Hera with long stories; after that, one of her unrequited lovers turned into a flower.

ANSWER: **Echo**

[10] These body parts of Zeus were recovered by Aegipan, who is either Pan's father or Pan himself, during the battle with Typhon. Typhon had torn them out during their first encounter.

ANSWER: Zeus' **sinews** [or Zeus' **tendons**]

<Silverman>

6. Influential theories in this field include Jean Piaget's four stages and Vygotsky's scaffolding. For ten points each:

[10] Name this field of psychology that studies the mental growth and maturation of human beings.

ANSWER: **child** psychology [or **developmental** psychology; or **adolescent** psychology]

[10] This psychologist claimed that people progress through pre-conventional, conventional, and post-conventional phases in six different stages of moral development.

ANSWER: Lawrence **Kohlberg**

[10] This author of *Julie, or the New Heloise* is credited with popularizing the distinction between infancy, childhood, and adolescence in his account of an ideal education.

ANSWER: Jean-Jacques **Rousseau**

<Spencer>

7. These functional groups are exchanged in a "metathesis" reaction catalyzed by a ruthenium complex named for Grubbs. For 10 points each:

[10] Name this functional group characterized by a carbon-carbon double bond.

ANSWER: **alkenes** [or **olefins**]

[10] Olefin metathesis typically results in mostly this alkene diastereomer, in which the higher-priority groups are on the same side. It is somewhat more stable due to reduced steric effects.

ANSWER: **E** [prompt on "trans"]

[10] The carbons in alkenes, much like other species containing double bonds, have this orbital hybridization. It has 33% s character.

ANSWER: **sp²**

<Kirsch>

8. A side-note to this poem suggests consulting Josephus or Michael Psellus about the sort of spirit who "plagued us so", following the narrator "Nine fathom deep...from the land of mist and snow". For 10 points each:

[10] Name this poem which also describes a dice game between Death and Life-in-Death. It ends with the narrator telling the Wedding-Guest "he prayeth best, who loveth best all things both great and small."

ANSWER: "The **Rime of the Ancient Mariner**"

[10] "The Rime of the Ancient Mariner" was written by this English Romantic poet of "Dejection: an Ode", who collaborated with William Wordsworth on the collection *Lyrical Ballads*.

ANSWER: Samuel Taylor **Coleridge**

[10] In this unfinished narrative poem by Coleridge, the title daughter of Sir Leoline is corrupted by a white-robed woman with an unusual mark on her side named Geraldine, who she meets in the woods and takes home.

ANSWER: "**Christabel**"

<Gupta>

9. This function is not really a function, but rather a distribution, and it is a continuous analogue of a similar function named for Kronecker. For 10 points each:

[10] Name this so-called function that is useful in modeling unit impulses. It returns a value of infinity when the input is zero, though its integral from negative to positive infinity is one.

ANSWER: **Dirac Delta** Function

[10] In all other cases, the Dirac delta function returns this value. For a body in equilibrium, this is the value of the net force acting on the body.

ANSWER: **zero** or **0**

[10] Integrating the Dirac Delta function is possible since one can assign this value to subsets of the Dirac Delta function. Assigning this quantity to a set is necessary in order to perform Lebesgue integration over the set.

ANSWER: Lebesgue **measure**

<Jose>

10. Identify the following about the House of Guise, for 10 points each:

[10] Mary of Guise was the mother of this ruler, whose marriage prospects triggered the War of the Rough Wooing. This monarch may have written some of the Casket Letters and was supported by men like David Rizzio.

ANSWER: **Mary, Queen of Scots** [prompt on "Mary" or "Mary Stewart" or "Marty Stuart"; do not accept "Mary I" or "Bloody Mary"]

[10] Henry, Duke of Guise, was married to a queen named Catherine, who hailed from this town in modern-day Germany. Henry VIII's fourth wife, Anne, was also from this place.

ANSWER: **Cleves** [or **Kleve** or **Kleef**]

[10] A later member of the House of Guise fought in this conflict until he was killed by his own guard, the Forty-Five Gentlemen. The decisive battle in this war was fought in 1587 at Coutras, and after this war the victor converted to Catholicism.

ANSWER: War of the **Three Henrys** [prompt on "French Wars of Religion"]

<Bentley>

11. One type of this cell, the astrocyte, support blood vessels and help form scar tissue. For 10 points each:
[10] Name this type of cell, which includes ependymal cells, oligodendrocytes, and a phagocytic "micro" type. Their name comes for the greek for "glue".

ANSWER: **glial** cells [or **neuroglia**]

[10] Ependymal cells and astrocytes are two of the several types of neuroglia found in this branch of the nervous system. This part of the nervous system consists of the brain and spinal cord.

ANSWER: **central** nervous system or **CNS**

[10] Ependymal cells are responsible for secreting this fluid into the ventricles of the brain. This clear fluid is sampled by a lumbar puncture.

ANSWER: **cerebrospinal** fluid [or **CSF**]

<Morlan>

12. Identify some jazz pianists, for 10 points each.

[10] This nearly blind virtuoso performed a blindingly fast version of "Tiger Rag" and was known for his complexly reharmonized and run-filled rearrangements of tunes such as "Tea for Two" and "Aunt Hagar's Blues".

ANSWER: Arthur "Art" **Tatum**, Jr.

[10] This pianist of albums titled *Genius of Modern Music* wrote such standards as "Epistrophy" and "Round Midnight".

ANSWER: Thelonious Sphere **Monk**

[10] This swing-era pianist formed part of the first major bi-racial jazz group as pianist for the Benny Goodman Trio. He was a frequent collaborator of Lester Young and often served as Billie Holliday's accompanist.

ANSWER: Theodore Shaw "Teddy" **Wilson**

<Lawrence>

13. Sound pressure levels are measured in these logarithmic units. For 10 points each:

[10] Zero on this scale is defined as the threshold of human hearing, and a sound 1000 times as loud is given a 30 on this scale.

ANSWER: **decibel**

[10] This is the lowest harmonic frequency of a vibrating string. Its wavelength is twice the length of the string, and each other harmonic is an integer multiple of this frequency.

ANSWER: **fundamental** frequency

[10] When two pitches at different frequencies are played together, they interfere to produce periodic variations in volume at this frequency, the difference between the two interfering tones.

ANSWER: **beat** frequency

<Chen>

14. This poem urges the reader to "lose thyself in the continuous woods where rolls the Oregon" and notes that Nature "speaks a various language" to those holding "communion with her visible forms". For 10 points each:

[10] Name this 1817 poem that describes an "innumerable caravan which moves to that mysterious realm where each shall take his chamber in the silent halls of death".

ANSWER: "**Thanatopsis**"

[10] This longtime editor of the New York Evening Post is the author of "Thanatopsis", as well as such other poems as "The Ages" and "To a Waterfowl".

ANSWER: William Cullen **Bryant**

[10] In "Thanatopsis," Bryant claims that one of these trees "shall send his roots abroad, and pierce thy mold." A series of twelve Whitman poems titled for a "live" one of these trees "with moss" can be found among his 45 homoerotic "Calamus" poems.

ANSWER: an **oak** tree [or "Live **Oak** with Moss"]

<Mehigan>

15. This man was discovered after William Parker received an anonymous letter warning Parker to stay away from Parliament. For 10 points each:

[10] Identify this man who hoped to install Princess Elizabeth on the English throne by blowing up the houses of Parliament in the Gunpowder Plot.

ANSWER: Guy **Fawkes** [or Guido **Fawkes**]

[10] Elizabeth went on to marry the Elector Palatine Elector Frederick V, better known by this nickname reflecting his brief stint on the throne of Bohemia before the Battle of White Mountain.

ANSWER: The **Winter King** [or **Winterkonig** or **Zimni kral**]

[10] The plot was organized by this man, who had earlier served time in jail for joining in Robert Devereux's rebellion. After the plot was discovered, he was killed while hiding out in Holbeche House.

ANSWER: Robert **Catesby**

<Bentley>

16. Identify the following about paintings set at the circus, for 10 points each.

[10] This artist created many studies of Miss Lala, also known as the Female Cannon. This Impressionist is best known for his paintings of ballerinas practicing, and for *The Tub*.

ANSWER: Edgar **Degas** [or Hilaire-Germain-Edgar **De Gas**]

[10] A horse bends its right front leg in this artist's *At the Circus Dressage*. This artist of diminutive stature only included part of a heavily-made-up woman's face in the right of his *At the Moulin Rouge*.

ANSWER: Henri de **Toulouse-Lautrec**

[10] This artist of *The Circus Horse* made twelve stained-glass windows for a Jerusalem synagogue and designed the sets for the ballet *Aleko* in addition to his paintings.

ANSWER: Marc Zaharovich **Chagall**

<Bentley>

17. Answer these questions about philosophy in the Roman Empire, for 10 points each.

[10] This Greek school got popular in Rome due to Cicero and Seneca the Younger. It taught that wise men should adhere to virtue and not let emotions take over.

ANSWER: **Stoicism** [or **Stoics**]

[10] This 2nd-century AD Greek scientist said “the best physician is also a philosopher,” combining theory with his medical practice. He updated Hippocrates’s theory of humors.

ANSWER: **Galen** of Pergamon [or Aelius **Galenus**; or Claudius **Galenus**]

[10] This school, championed by Plotinus and Porphyry, drew on older texts to claim that the body is a mere trapping and all things are on a hierarchy of emanations from “the One”.

ANSWER: **Neoplatonism** [or **neo-Platonic** school]

<Jackson>

18. In one poem, this author declared that he is "much too alone in this world, yet not alone enough/to truly consecrate the hour", while in another, he declared "Here is the age of the sayable: here is its home". For 10 points each:

[10] Name this author, who closed another poem with the instruction "you must change your life."

ANSWER: Rainer Maria **Rilke** [or Rene Karl Wilhelm Johann Josef Maria **Rilke**]

[10] Rilke's best-known work is a set of ten of these mournful poems written during his stay at the Duino Castle. Thomas Gray described how "the curfew tolls the knell of parting day" in one of them "Written in a Country Churchyard".

ANSWER: **elegies** [or **elegy**; or **Elegien**]

[10] Over a three-week period in 1922, Rilke experienced a "savage creative storm" that resulted in the production of this set of 55 poems, intended as a "grave-marker" for his daughter's friend Vera Knoop. They often refer to their title mythological figure as "the god with the lyre".

ANSWER: the **Sonnets to Orpheus** [or *Die* **Sonette an Orpheus**]

<Gupta>

19. This son of Bindusara erected a notable monument at Sarnath. For 10 points each:

[10] Identify this Indian ruler who was greatly affected after carrying out the bloody Kalinga Campaign.

ANSWER: **Ashoka** Maurya [or **Asoka** Maurya]

[10] Ashoka's conquest spurred him to embrace this religion, even sending own children to Sri Lanka as missionaries. He erected several monuments to its founder, Siddhartha Gautama.

ANSWER: **Buddhism**

[10] After the assassination of Brihadratha, Ashoka's Mauryan dynasty was succeeded by this other Indian dynasty. Its king Agnimitra was the subject of a play by Kalidasa.

ANSWER: **Sunga** Dynasty [or **Shunga** Dynasty]

<Bentley>

20. The documentary hypothesis posits that the Torah was written as four source documents, including the J-source and the E-source, which got redacted together later. For 10 points each:

[10] This fifth book of the Old Testament is thought by documentary scholars to come largely intact from its own source, the D-source. Moses dies in this book.

ANSWER: Book of **Deuteronomy** [or **D'varim**; prompt on **D-source**]

[10] The alternating uses of this Hebrew proper noun and God's name is one argument for a multi-source theory of the Torah. This word, found in Genesis 1:1, has a plural ending despite being singular.

ANSWER: **Elohim**

[10] This special tribe of Israel, whose members served as priests alongside Aaron’s descendants, the *kohanim*. Its members may have authored a “P-source,” or Priestly source.

ANSWER: **Levites** [or sons of **Levi**; or children of **Levi**]

<Jackson>

21. Young's double-slit experiment provided evidence for this form of matter. For 10 points each:

[10] The de Broglie hypothesis states that all matter exists in this form as well as in particle form.

ANSWER: wave form [or wave-particle duality]

[10] The fact that particles are described by probabilistic wavefunctions gives rise to this principle, which states that the standard deviation of position times the standard deviation of momentum is greater than \hbar over 2.

ANSWER: Heisenberg uncertainty principle

[10] Along with position and momentum, the uncertainty principle also applies to other pairs of quantities with this relationship, such as energy and time, which are Fourier transforms of each other.

ANSWER: canonically conjugate variables

<Chen>

22. This dynasty was founded by Burchard I, and in 1192 split into the Franconian and Swabian branches. For 10 points each:

[10] Identify this dynasty. Frederick William, the Great Elector, was both a member of this dynasty and the Elector of Brandenburg.

ANSWER: House of Hohenzollern [or Hohenzollern Dynasty]

[10] Frederick III of Brandenburg was the first member of the House of Hohenzollern to be recognized as the "king in" this place. The German kingdom of this name fought the Seven Weeks War with Austria and was the driving force behind German unification.

ANSWER: Prussia [or Preussen or Prusy]

[10] This member of the earlier Hohenstaufen family succeeded Frederick Barbarossa and gained control of Sicily by marrying Constance I. An English king of this name and number founded Eton College and faced Jack Cade's Revolt.

ANSWER: Henry VI

<Bentley>

23. In this novel's preface, the author claims that all of the scenes in which the heroine is depicted stealing from people are actually educational, as they teach readers how to avoid robbers. For 10 points each:

[10] Identify this 1722 novel whose protagonist is born in Newgate Prison and is married five times, once to her own half-brother, before finding happiness with a man from Lancashire.

ANSWER: Moll Flanders [or *The Fortunes and Misfortunes of the Famous Moll Flanders*]

[10] *Moll Flanders* was written by this novelist, pamphleteer, and failed civet cat breeder. His other works include *A Journal of the Plague Year* and *Robinson Crusoe*.

ANSWER: Daniel Defoe [or Daniel Foe]

[10] Defoe is thought by some scholars to be the author of a pseudonymous 1724 "General History" of these people. Defoe also fictionalized the life of one named John Gow, while another author wrote a novel in which they use the "Black Spot" to indicate judgements to one another.

ANSWER: pirates [accept synonyms]

<Carson>