

1. Confederate woman Mary Chesnut made one of these objects during the Civil War. It's not a box, but one of these man-made objects is repeatedly marked with an "S" in a Wittgenstein argument against the existence of private languages. British historian Hugh Trevor-Roper mistakenly authenticated fake examples of these things attributed to Hitler. Affairs with Henry Miller inspired explicit material in one of these items by (*) Anais Nin. A naval administrator who gave a detailed account of the Great Fire of London using one of these objects was named Samuel Pepys ("PEEPS"). The Dutch owner of another one of these, called "Kitty," died at Bergen-Belsen. For 10 points, name this type of book which Anne Frank wrote in during the Holocaust.

ANSWER: diary [or diaries; or personal journals; prompt on notebooks]

<Jackson>

2. In one work by this author, Anne Proctor and Reginald discuss the unrequited love between the two title birds. Another story by this author sees the two title characters discuss giving a watch to their nephew Cyril, after Jug and Con meditate on the death of their father. This author of "Mr. and Mrs. Dove" and "The Daughters of the Late Colonel" penned a story in which children place flags on sandwiches and are encouraged by Sadie to eat (*) cream puffs before learning of the death of the workingman, Scott. Despite Laura's objections, that death does not prevent Mrs. Sheridan from putting on the title event. For 10 points, name this New Zealand-born female author of "The Garden Party".

ANSWER: Katherine Mansfield Beauchamp [or Katherine Mansfield Murry]

<Bentley>

3. Asanga and Vasubandhu founded a school of Mahayana Buddhism named for this term that rivaled Nagarjuna's Madhyamika school. This term identifies 196 sutras written by Patanjali. Its "hatha" form is based on a collection of *asana*. One form of it is the intense love for a single god that characterizes (*) Shaivism and Vaishnavism; another is named for "perfect knowledge." This discipline, with *karma*, *jnana*, and *bhakti* forms, is best-known as practiced with breath control and the "sun salutation." For 10 points, name this collection of disciplines from India whose most famous application is in therapeutic stretching.

ANSWER: yoga [or specific forms, such as karma yoga; or bhakti yoga; or Yogacara; or jnana yoga; or hatha yoga]

<Bollinger>

4. The determinant of a Vandermonde matrix is usually called one of these things. Power sums are related to "symmetric" varieties of these things by the Newton identities. The solutions of these things can be quickly tested with Horner's method. The elementary symmetric function for these things are defined by Vieta's formulas. Their types of solutions can be determined by using (*) Descartes's rule of signs. A complex solution to these functions always exists according to the fundamental theorem of algebra. Their degree is equal to their number of roots. For 10 points, name these functions that consist of a sum of variables raised to non-negative integer powers and multiplied by coefficients, such as cubics and quadratics.

ANSWER: polynomials [prompt on functions until it is read]

<Reinstein>

5. The protagonist of a work by this author is killed by an iceberg in Antarctica after traveling south along the Nile and meeting people named "Don Quixote" and "Jesus". One of this man's narrators is left behind by a friend who goes to fight Russian persecution in the Caucasus and has an affair with the Widow, who is then stoned to death, inspiring Pavli's suicide by drowning. In a historical novel by this man, (*) Jesus considers escaping the crucifixion. A lignite mine foreman created by this man uses his skills on the cimbalom to seduce an ex-prostitute he nicknames "Bouboulina", a hotel proprietor named Madame Hortense. For 10 points, name this author of *The Last Temptation of Christ* and *Zorba the Greek*.
ANSWER: Nikos Kazantzakis

<Mehigan>

6. This kingdom acceded to Dutch demands by signing the Treaty of Elbing after its 1650s siege of Danzig forced Dutch intervention. This kingdom reached its largest territorial extent during its *stormaktstiden*, or "great power" era. This kingdom occupied Poland during a period called the Deluge. One non-native warrior who defected to this kingdom's side, and then fled to Bendery castle in Moldavia, was Cossack hetman (*) Ivan Mazepa. This kingdom, which secured peace with Denmark in the 1700 Peace of Travendal, had a Napoleonic general installed on its throne to begin the House of Bernadotte. It lost the Battle of Poltava under king Charles XII. For 10 points, name this northern European kingdom which lost the Great Northern War to Russia.

ANSWER: Sweden [or Konungariket Sverige or Svenska stormaktstiden]

<Hart>

7. These people could become *forros* with the help of mutual aid societies. A Muslim subgroup of these people revolted in the Malê uprising. A female one named Aqualtune founded Palmares, an example of settlements to which these people moved called quilombos. The Queiroz Law was passed under pressure from Great Britain to end the movement of these people in 1850. These people, who founded the Candomblé religion, were (*) aided by a law signed by Princess Isabella concerning wombs. Their status was ended by the Golden Law of Pedro II. For 10 points, name these people, some of whom developed a form of kickboxing called capoeira while working on plantations.

ANSWER: Brazilian slaves [or Brazilian maroons; or Brazilian fugitive slaves; prompt on "Brazilians," "black Brazilians," "Afro-Brazilians," etc.]

<Bailey>

8. Players of this instrument often utilize "resonance fingerings" to obtain a more uniform sound when playing this instrument's notorious "throat tones". Johann Christoph Denner is attributed as the inventor of this instrument, whose low range is called the "chalumeau" after its ancestor. Haydn's 99th symphony was his first to use this instrument, which along with the horn represents the title character of Strauss' *Till Eulenspiegel's Merry Pranks*. Anton (*) Stadler was an early virtuoso on this instrument, for which Mozart wrote his last concerto, in A major. This instrument plays a glissando at the opening of George Gershwin's *Rhapsody in Blue*. For 10 points, name this single-reed woodwind instrument usually pitched in either B-flat or A.

ANSWER: clarinet

<Rosenberg>

9. **This state property is the only one which explicitly does not follow Gibbs' theorem. In an Otto cycle, there are two isentropic steps and two steps where this quantity remains constant. The slope of a coexistence curve equals the difference in entropy divided by the difference in this quantity for the two phases, according to the Clapeyron equation. Both terms of the van der Waals equation have this quantity in the (*) denominator. When this state variable is held constant, heat added to the system equals the change in internal energy, such as in a bomb calorimeter. This quantity is proportional to temperature and inversely proportional to pressure for ideal gases. For 10 points, name this quantity which is measured in liters.**

ANSWER: molar volume

<Silverman>

10. **Stanley Greenspan developed The P.L.A.Y. Project and Floortime as therapies for this condition. The Sally-Anne test was developed to test theory of mind in people with this condition. V. S. Ramachandran proposed that this condition is caused by a deficiency of mirror neurons. Simon Baron-Cohen theorized that people with it are better at systemizing than empathizing due to an "extreme male brain". A now-discredited theory developed by Bruno Bettelheim blamed this condition on distant (*) "refrigerator mothers". This condition is characterized by repetitive or stereotyped behavior and trouble with social interaction and communication. For 10 points, name this pervasive developmental disorder which is found on a namesake spectrum.**

ANSWER: autism

<Kothari>

11. **In one play by this man, Grandma dies on a beach after a Young Man exercising nearby reveals that he is the angel of death, and in another, a character named A reminisces while B takes care of A, and C tries to get A to deal with legal matters. Two characters created by this author of *The Sandbox* got married because of a "hysterical pregnancy," while another couple he created has a (*) fictional son who "dies" in a car wreck after swerving to avoid a porcupine. A play by this man includes acts entitled "Walpurgisnacht," in which characters play "get the guest," and "Fun and Games," in which Nick and Honey drink with George and Martha. For 10 points, name this American playwright of *Three Tall Women* and *Who's Afraid of Virginia Woolf?***

ANSWER: Edward Franklin Albee III

<Mehigan>

12. **In 2013, this city opened the world's largest natural flower garden, the Miracle Garden. The Al Shindagha Tunnel under this city's namesake creek links it with the Al Ras community. The Business Bay is a district in this city which is home to Port Rashid. The Palm Islands are two artificial islands off the coast of this city, which contains an artificial (*) archipelago in the shape of a world map. This city is home to the world's largest shopping mall as well as a supposed "seven star" hotel built in the shape of a sail. For 10 points, name this city on the Persian Gulf in the United Arab Emirates that is home to the world's tallest building, the Burj Khalifa.**

ANSWER: Dubai

<Karas>

13. This artist created inverse images of his past works for his *Retrospectives and Reversals* series and drew inspiration from newspaper articles for his *Death and Disaster* series. Ramona Alvarez is raped by the title characters of one of his films, while another consists entirely of a five-hour-plus long take of John Giorno. This director of *Lonesome* (*) *Cowboys* and *Sleep* used copper-based paint onto which various people urinated for his *Oxidations* series. Many of his works involved his namesake Superstars and were produced at the Factory. He used silkscreening for, among other works, his portraits of Mao and Marilyn Monroe. For 10 points, name this pop artist who painted Campbell's Soup cans.

ANSWER: Andy Warhol [or Andrew Warhola; or Andrej Varhola, Jr.]

<Bentley>

14. During a climactic battle, a sorceress in this myth system fuses her body with a shipwreck to become an eagle and carries her army on her wings. One character in this myth system draws a rake of steel and copper through a river to recover the pieces of her son's body. The thunder god of this myth system owns a warhammer known as his (*) *vasara*. The virgin-born child of Marjatta forces the major hero of this myth system to depart from his country on a raft, leaving behind a harp made from a pike's jaw, the *kantele*. To marry the maid of Pohjola, this myth system's god of the forge creates the Sampo. For 10 points, name this myth system whose heroes, including Ilmarinen, Lemminkainen, and Vainamoinen, have their stories told in Elias Lonnrot's *Kalevala*.

ANSWER: Finnish mythology

<Naveh-Benjamin>

15. A character in this novel argues about whether it is better to have a fat dog or a thin dog with his sister, Beatrice Lacy. Late in this novel, Frank Crawley reveals that he is prepared to pay off the blackmailer Jack Favell. A flare from a shipwreck stops a suicide attempt in this novel, whose protagonist dresses up like a (*) portrait of her husband's ancestor Caroline and thus ruins a ball. This novel's protagonist, who is continuously undermined by the devious housekeeper Mrs. Danvers, eventually learns the true fate of its title character, Maxim de Winter's first wife. For 10 points, name this novel that begins "Last night I dreamt I went to Manderley again", the most famous novel by Daphne du Maurier.

ANSWER: Rebecca

<Carson>

16. A blue-clad fiddle-player appears in a work of Judith Leyster in which this action is taking place. In a work subtitled for "the origin of" this activity by Joseph Wright of Derby, Dibutades has fallen asleep, allowing the title *Maid of Corinth* to perform this action. A chandelier topped by a double-headed eagle and a woman in a laurel wreath and blue dress, who holds a book and a trumpet and is thought to represent the (*) Muse Clio, appear in an allegorical depiction of this action created by Vermeer. A naked woman holding a sheet stands next to a man engaged in this activity in a work that also features appearances by Alfred Bruyas and Baudelaire. For 10 points, name this activity in which Gustave Courbet engages in in *The Artist's Studio*.

ANSWER: painting [or drawing; prompt on "making art"; do not accept other art forms like "sculpting"]

<Bentley>

17. **Staffordshire's John Wilkinson got a nickname for being "mad" about this product, whose production was made easier by James Beaumont Neilson. Henry Cort patented a puddling process to transform this material. Abraham Darby's family made a fortune producing this material. Stephenson's *Rocket* was often compared to a "horse" made of this material. With (*) plate-glass, this material was used to build the Crystal Palace. At the 1866 battle of Lissa, ramming destroyed an Italian ship built from this substance. It is refined using a material called coke in blast furnaces. For 10 points, name this metal which has been used since Zhou dynasty China in its "pig" form, which, with carbon, is turned via the Bessemer process into steel.**

ANSWER: iron [or cast iron; or wrought iron; or pig iron; do not accept "steel"]

<Bentley>

18. **Dividing by this quantity nondimensionalizes many phase space integrals in statistical mechanics. It is multiplied by i to give the commutator between position and momentum. Taking this quantity to zero gives a system's classical limit; accordingly, it appears in the ground state energy of the quantum harmonic oscillator and the numerator of the de Broglie wavelength. This quantity over 4π gives a lower bound on the products of (*) uncertainties according to the Heisenberg principle, which is often written using its "reduced" version. For 10 points, identify this quantity symbolized h , named for a German originator of quantum physics.**

ANSWER: Planck's constant [or h until it is read; or reduced Planck's constant until " 4π " is read; or h -bar until " 4π " is read]

<Eltinge>

19. **This process has been set back by the *Meredith* case, which ruled that voluntary attempts at enacting it were not "narrowly tailored" and was paired with Chief Justice Roberts's 2007 *Parents Involved* ruling. A court-ordered method for enacting this process led to riots in Boston in 1975. The last of John W. Davis's Supreme Court arguments opposed this policy. The *Swann* case, brought in the (*) Charlotte-Mecklenburg area, concerned the use of buses to promote this outcome. The vague phrase "with all deliberate speed" provided no legal timeline for this objective, which led to "massive resistance" in Virginia. For 10 points, name this outcome which governor Orval Faubus tried to prevent as the Little Rock Nine entered Central High School.**

ANSWER: integration of public schools [or public school desegregation; or voluntary classroom desegregation; or desegregation busing; accept any answer indicating the enrollment of non-white students in previously all-white public schools; prompt on "busing" before "buses" is read]

<Jackson>

20. **These structures are missing in *agamous* mutants. The enzyme callase localizes to this structure, which contains a nutritive feeder layer called the tapetum. This structure produces triplets of two generative cells and one vegetative cell, all of which are released through dehiscences. In *Arabidopsis*, there are six of these structures in the third whorl, two lateral and four medial. These main components of the (*) androecium contain microsporangia, which produce microgametophytes. These structures consist of a filament and an anther, which makes pollen. For 10 points, name these plant structures, the counterpart of carpels, which are the "male" reproductive component of flowers.**

ANSWER: stamens [or anthers before it is read]

<Silverman>

21. In a plane-parallel diode, the current density varies as this power of the anode voltage according to the Child-Langmuir law. In the Sackur-Tetrode equation, this number appears in the exponent above the internal energy. A spherical polytropic fluid of this index is used to derive the Chandrasekar limit. This is the maximum spin of a delta baryon. For a body in a circular orbit, the period is proportional to this power of the (*) radius. In an ideal gas, this value times Boltzmann constant times temperature, gives the average kinetic energy per particle. The volume varies as this power of the surface area. For 10 points, give this value, which when multiplied by pi radians gives the second-smallest positive zero of the cosine function.

ANSWER: 3/2 [or 1.5]

<Mukherjee>

22. In one short story by this author, King Aben Habuz sets up a weathervane to symbolize the instability of his power and, and in another, that king consults an "Arabian Astrologer" to secure his kingdom. This author cited the historiographer Mateo Ximenes to support those stories, which are collected alongside "Mementos of Boabdil" and "The Court of Lions." Fictional personae employed by this author of *Tales of the* (*) *Alhambra* include Jonathan Oldstyle, Diedrich Knickerbocker, and Geoffrey Crayon, whose "Sketch Book" includes the story of the competition for the hand of Katrina Von Tassel between Brom Bones and Ichabod Crane. For 10 points, name this author who described the Headless Horseman in his short story "The Legend of Sleepy Hollow."

ANSWER: Washington Irving

<Mehigan>

23. Tension during this year was defused by police chief Maurice Grimaud. In this year, the leader of the 22 of March Movement, Daniel Cohn-Bendit, became known as "Danny the Red". During this year, the minimum wage was increased 35% by the Grenelle Agreements, and a national president met with Jacques Massu in Baden-Baden after leaving his country and drawing rebukes from Georges (*) Pompidou for fleeing. In this year, the Situationist pamphlet *On the Poverty of Student Life* inspired spontaneous labor strikes, and Sorbonne students took over public buildings in the Left Bank area of Paris. For 10 points, name this year in which protests in May nearly brought down the last de Gaulle government in France, the same year as Prague Spring.

ANSWER: 1968 [accept answers referring specifically to May 1968; prompt on 68]

<Ray>

24. Friendly fire during this conflict's Battle of Latrun killed a general named Mickey Marcus. Four obsolete howitzers from France, including two at Degania, helped this war's winners. This war included intense fighting in the Little Triangle and one side in this conflict managed to smuggle weapons from Czechoslovakia in Operation Balak. After Swedish mediator Folke Bernadotte was assassinated during this conflict, his replacement, Ralph Bunch, helped end it with (*) UN resolution 194. Groups fighting in this conflict, which included a population transfer called the Nakba, or catastrophe, include the Irgun headed by Menachem Begin. For 10 points, name this conflict in which six Arab nations attacked a new nation headed by David Ben-Gurion.

ANSWER: Israeli War of Independence [or 1948 Arab-Israeli war; accept al-Nakba or The Catastrophe until "Nakba" is read]

<Mukherjee>

1. Identify the following about Serbo-Bosnian literature, for 10 points each.

[10] The most famous work of Serbian author Milorad Pavic comes in male and female editions and is titled for one of these books "of the Khazars." Samuel Johnson spent nine years creating one for the English language.

ANSWER: **dictionary** [or **dictionaries**; accept ***Dictionary** of the Khazars*]

[10] The national epic of Serbia and Montenegro, written by Prince-Bishop Petar II Njegos, is titled for this type of "wreath." A novel about the aging Shingo by Yasunari Kawabata is titled for the "sound" of one of these geological features.

ANSWER: **mountains** [accept *The **Mountain** Wreath* or ***Gorski** Vijenac* or *The Sound of the **Mountain*** or ***Yama** no Oto*]

[10] This Nobel-winning Bosnian author wrote such novels as *The Vizier's Elephant* and *The Woman from Sarajevo*, but is most famous for his sprawling historical work *The Bridge on the Drina*.

ANSWER: Ivo **Andric** [or Ivan **Andric**]

<Carson>

2. This man's mistress Manuela Saenz helped him escape an assassination attempt by escaping through a window. For 10 points each:

[10] Name this "Libertador" of South America, who installed himself as dictator of Gran Colombia to secure stability in the areas he freed.

ANSWER: Simón José Antonio de la Santísima Trinidad **Bolívar**

[10] This victor at Chacabuco and Maipú met with Bolívar to plan the liberation of Peru at the Guayaquil conference.

ANSWER: José Francisco de **San Martín**

[10] This adjective named the highest social class in colonial South America, above *criollos*. San Martín fought in a war of this name in Spain against Napoleon's brother Joseph, which spurred South American independence movements.

ANSWER: **peninsulars** [or ***peninsulares***; or **Peninsular** War]

<Jackson>

3. A unit measuring recombination frequency between two genes is named for this biologist. For 10 points each:

[10] Name this geneticist who had a "fly room" at Columbia where he studied *Drosophila*. He proposed the concept of crossing over through homologous recombination.

ANSWER: Thomas Hunt **Morgan**

[10] Morgan found that eye color in *Drosophila* was linked to this other physical trait. Hemophilia and color blindness are linked to this trait in humans because they're caused by mutations on genes on the X chromosome.

ANSWER: **sex** [or **sex-linked** traits; or equivalents like **male or female**]

[10] Two alleles are said to exist in this state if they are not inherited completely independently of each other. This state can occur due to physical recombination or due to selection pressure which favors two distant alleles.

ANSWER: linkage **disequilibrium** [prompt on genetic **linkage** or word forms]

<Silverman>

4. Identify the following things about Mozart's operas, for 10 points each.

[10] This title character, a notorious rake, kills the Commendatore in a duel but is later dragged to hell by a statue of that man. His many conquests are outlined by his servant Leporello in the "Catalog Aria".

ANSWER: Don **Giovanni**

[10] Emperor Joseph II supposedly claimed that there were "too many notes" in this Mozart opera, in which Belmonte rescues his beloved Konstanze from the harem of Pasha Selim.

ANSWER: *The **Abduction from the Seraglio*** [or *Die **Entführung aus dem Serail***; or **K.384**]

[10] This aria from *The Magic Flute* requires the soprano playing the Queen of the Night to hit a high F6. In it, the Queen orders Pamina to assassinate her rival Sarastro.

ANSWER: "Der **Hölle Rache** kocht in meinem Herzen" [or "**Hell's vengeance** boils in my heart"; prompt on "the Queen of the Night's aria"]

<Carson>

5. The success of this weapon inspired the production of the Chassepot (shas-POE), which had even greater range and muzzle velocity. For 10 points each:

[10] Name this firearm, whose use against the Austrians at Koniggratz in 1866 inaugurated the rise of the breech-loading rifle in Europe.

ANSWER: M41 Dreyse **needle gun** [or **Zundnadelgewehr**; or **Model 1841**]

[10] Competence with the needle gun helped the winners of this September 1870 battle defeat the army of Patrice de Mac-Mahon. Napoleon III was captured here between the battles of Gravelotte and Metz.

ANSWER: Battle of **Sedan**

[10] Sedan turned the tide of this war in favor of the North German Confederation. A ceremony in Versailles' Hall of Mirrors after this war declared a unified Germany.

ANSWER: **Franco-Prussian** War of 1870-1

<Ray>

6. One story states that this Trojan warrior was killed after he himself slew Antilochus; other stories state Achilles killed him as part of his general rampage. For 10 points each:

[10] Name this Ethiopian king who was killed during the Trojan war.

ANSWER: **Memnon**

[10] Memnon was a child of this "rosy-fingered" goddess. She was the Greek version of Aurora and presided over the dawn.

ANSWER: **Eos**

[10] One of the children of Eos and Procris was a figure of this name that personified the morning and evening stars. This was the name of a child of Apollo who foolishly mishandled his father's chariot.

ANSWER: **Phaethon**

<Jose>

7. This character is initially engaged to Ronny Heaslop, who breaks off their engagement after accusing her of being a race traitor. For 10 points each:

[10] Name this character who becomes overwhelmed during a trip to the Marabar Caves, causing her to falsely accuse Dr. Aziz of sexually assaulting her, in the novel *A Passage to India*.

ANSWER: Adela Quested [accept either underlined portion]

[10] *A Passage to India* was written by this British author, who advocated humanism in the essay "What I Believe" and wrote the novels *Howards End* and *A Room with a View*.

ANSWER: Edward Morgan Forster

[10] After his first love interest Clive Durham decides to marry, the protagonist of this posthumously-published Forster novel visits the hypnotist Lasker Jones in an attempt to "cure" him of his homosexuality. Things end pleasantly, though, as the title character finds happiness with the gamekeeper Alec Scudder.

ANSWER: Maurice

<Carson>

8. A boy lies on a grassy field with his arm over his face in this artist's watercolor *Daydreaming*, while a woman jealously looks over her shoulder at a couple in a beached canoe in his engraving *Two Are Company, Three Are None*. For 10 points each:

[10] Identify this American artist who is most famous for his marine scenes, including *Breezing Up* and *The Gulf Stream*.

ANSWER: Winslow Homer

[10] Homer was commissioned by *Harper's Weekly* to document this conflict, in which capacity he produced a series of drawings that later inspired paintings like *Prisoners from the Front*.

ANSWER: United States Civil War

[10] The left-most boy is falling to the ground in this Homer painting, which shows a group of mostly-barefoot boys linking arms and playing the title game.

ANSWER: Snap-the-Whip

<Bentley>

9. The Presidential Range is located within this larger mountain range. For 10 points each:

[10] Name this range in the northern Appalachian mountains which is home to Mount Washington.

ANSWER: White Mountains

[10] The White Mountains are located in this New England state, which is the only U.S. state to border Maine.

ANSWER: New Hampshire

[10] The Kinsman Range of the White Mountains is home to this peak. It once hosted an outcropping in the shape of a face known as the Old Man of the Mountain, which embarrassingly collapsed shortly after New Hampshire state quarters featuring the Old Man were issued.

ANSWER: Cannon Mountain [or Profile Mountain]

<Karas>

10. Makoto Kobayashi and Toshihide Masakawa won the 2008 Nobel in Physics for their 1973 prediction of the third generation of these particles, the heaviest of which was finally observed in 1995. For 10 points each:

[10] Identify these subatomic particles, first theorized by Murray Gell-Mann and George Zweig, which come in "flavors" like top, bottom, strange, and charm.

ANSWER: **quarks**

[10] Top quarks decay too quickly to form this class of particles, which consist of quarks held together by the strong force. Baryons and mesons are the two families of this class of particles.

ANSWER: **hadrons**

[10] Convincing evidence for the reality of quarks was first provided by this process, an extension of Rutherford scattering in which high-energy leptons are fired at hadrons.

ANSWER: **deep inelastic** scattering [or **DIS**; prompt on partial answers]

<Carson>

11. The Schechter Day School Network identifies with this denomination, whose seeds were planted by the dissident Zacharias Frankel. For 10 points each:

[10] Name this moderate Jewish denomination, also known as Masorti Judaism, many of whose rabbis are trained at the Jewish Theological Seminary in New York City.

ANSWER: **Conservative** Judaism

[10] Conservative Judaism operates between the extremes of Reform and this other type of Judaism, whose members strictly adhere to Talmudic law. More generally, this word denotes adherence to religious norms.

ANSWER: **Orthodox** Judaism [or word forms]

[10] This progressive Jewish movement, based on the ideas of Mordecai Kaplan, grew as an offshoot of Conservative Judaism.

ANSWER: **Reconstructionist** Judaism

<Gupta>

12. Answer these questions about prominent ideas from the study of American history, for 10 points each.

[10] Charles Beard's *Economic Interpretation of [this document]* argued that the property interests of its Framers heavily influenced the form of government it laid out.

ANSWER: the **Constitution** of the United States [or *An Economic Interpretation of the **Constitution** of the United States*]

[10] A namesake thesis by Frederick Jackson Turner argues that the "significance" of this region deeply influenced American history. This place was "closed" to further "westering" as of the 1890 census.

ANSWER: the American **frontier** [or the **frontier** thesis; or "The Significance of the American **Frontier**"]

[10] This short phrase described a view of Civil War historiography which emphasized the chivalrous motives of southern generals such as Stonewall Jackson rather than slavery. Adherents of this view include ex-general Jubal Early and the Dunning school of Reconstruction scholars.

ANSWER: "**Lost Cause** of the Confederacy" [or **Lost Cause** School]

<Bentley>

13. This character is seven feet tall, albino, and completely hairless. For 10 points each:

[10] Name this wielder of gun named “et in Arcadia ego” who kills “the kid” at the end of the novel in which he appears.

ANSWER: Judge **Holden** [or the **Judge**]

[10] Judge Holden makes gunpowder out of guano and charcoal in this novel about the activities of John Joel Glanton’s scalp-hunting gang along the Mexican border.

ANSWER: ? ***Blood Meridian***, or *the Evening Redness in the West*

[10] This American novelist of *The Road* and *No Country for Old Men* wrote *Blood Meridian*.

ANSWER: Cormac **McCarthy** [or Charles **McCarthy**]

<Mehigan>

14. Answer these questions about the history of surgery, for 10 points each.

[10] In this century, Henry Gray published his still-standard anatomy textbook and James Young Simpson discovered chloroform, a pioneering anaesthetic used on Queen Victoria's children.

ANSWER: **19th** century CE [or **1800s**; accept answers ending in "AD" rather than "CE"]

[10] Gray's *Anatomy* displaced this Renaissance doctor's *De Humani Corporis Fabrica*. This man violated bans on dissecting corpses to supplant the obsolete work of Galen.

ANSWER: Andreas **Vesalius**

[10] Joseph Lister's antiseptic washes helped discredit this theory of disease, which held that noxious vapors or "bad air" were in and of themselves the cause of illnesses such as cholera.

ANSWER: **miasmatic** theory

<Jackson>

15. Answer the following about far-right European political parties, for 10 points each.

[10] Leaders from this country's Golden Dawn party have described Hitler as a "great personality" and praised Rudolf Hess as a hero while winning eighteen seats in its Parliament.

ANSWER: **Greece** [or **Hellenic Republic**; or **Elliniki Dimokratia**; or **Ellas**; or **Ellada**]

[10] This Hungarian political party also has been accused of Neo-Nazism and anti-Semitism, as they oppose Jewish investment in Hungary. A former high-ranking member of this party, Csanád Szegedi, was forced to resign in 2012 after it was discovered he had been hiding his Jewish ancestry.

ANSWER: **Jobbik**, the Movement for a Better Hungary

[10] Jean-Marie Le Pen is this founder of the National Front in this country. His daughter Marine came in third in this country's most recent presidential election behind Francois Hollande and Nicolas Sarkozy.

ANSWER: **France** [or **French Republic**; or **Republique Francais**]

<Rosenberg>

16. In one of this man's works, an aspirin salesman kills a child with his car, becomes afraid of cars, and is cured when a psychiatrist teaches him to hate children; in another, an incredibly stupid boy becomes a famous soccer referee. For 10 points each:

[10] Identify this fictional character, an eccentric Argentine-hating Bolivian who is hired by Panamerica to create soap operas.

ANSWER: **Pedro Camacho** [accept either underlined portion; prompt on BUT DO NOT OTHERWISE REVEAL "the Scriptwriter"]

[10] Pedro Camacho is the second title character of this 1977 novel, whose autobiographically-inspired narrator marries the first title character.

ANSWER: **Aunt Julia and the Scriptwriter** [or *La Tia Julia y el Escribidor*]

[10] *Aunt Julia and the Scriptwriter* was written by this Peruvian Nobel Laureate, whose other novels include *The Green House* and *The Time of the Hero*.

ANSWER: Mario **Vargas Llosa** [or Jorge Mario Pedro **Vargas Llosa**, 1st Marquis of Vargas Llosa; prompt on partial answer]

<Carson>

17. Identify the following about some Turing Award winners, for 10 points each.

[10] Dennis Ritchie's Turing Award came for his contributions to UNIX and this programming language, whose syntax was adopted by later languages like Java. An object-oriented "plus-plus" version of this language was first developed in the early '80s.

ANSWER: **C** [do not accept "C++" or "C Sharp"]

[10] The first Turing Award went to Alan J. Perlis for writing one of these programs for ALGOL. These programs can come in single-pass or multi-pass varieties, and convert source code into machine readable code.

ANSWER: **compilers**

[10] Turing Award-winner C.A.R. Hoare is probably best known for this algorithm, which performs nicely when using a median-of-three selection criterion.

ANSWER: **quicksort**

<Bentley>

18. According to this distribution, the probability of a state is equal to the exponential of negative energy over k times temperature, all divided by the partition function. For 10 points each:

[10] Name this distribution from statistical mechanics which describes the canonical ensemble. This distribution's namesake also names the proportionality constant between temperature and molecular kinetic energy.

ANSWER: **Boltzmann** distribution [or **Maxwell-Boltzmann** distribution]

[10] The Maxwell-Boltzmann distribution usually plots probability against this quantity for gas molecules. For ideal gas molecules, the most likely value for this quantity equals the square root of 2 RT over molar mass.

ANSWER: **velocity** [or **speed**]

[10] Boltzmann's constant is equal to the gas constant divided by this other constant, which equals the number of atoms in a mole.

ANSWER: **Avogadro's** number [or **Na**]

<Silverman>

19. Sections inspired by *Huckleberry Finn*, slave spirituals, and the celebration of Mardi Gras in New Orleans are included in this composer's *Mississippi Suite*. For 10 points each:

[10] Name this Franco-American composer whose most enduring works are his *Grand Canyon Suite* and his orchestral arrangement of George Gershwin's *Rhapsody in Blue*.

ANSWER: Ferde **Grofé** [or Ferdinand Rudolph von **Grofé**]

[10] Grofé's *Grand Canyon Suite* was recorded in 1945 by the NBC Symphony Orchestra under the baton of this man, its first conductor. This Italian premiered Puccini's *La bohème* and *Turandot* and served as the music director at La Scala and the Met.

ANSWER: Arturo **Toscanini**

[10] Toscanini talked Leopold Stokowski into letting him conduct the North American premiere of this Russian composer's seventh symphony, which was nicknamed "Leningrad". He also composed symphonies nicknamed "Babi Yar" and "A Soviet Artist's Response to Justified Criticism".

ANSWER: Dmitri Dmitriyevich **Shostakovich**

<Carson>

20. Anne Krueger wrote an article describing how competing for this quantity led to private and social costs diverging. For 10 points each:

[10] Name this amount of money paid in excess of a person or firm's opportunity cost.

ANSWER: **rent**

[10] This English economist argued that rents on good land would increase as population growth required more land to be farmed in his *Principles of Political Economy*, where he also developed the theory of comparative advantage.

ANSWER: David **Ricardo**

[10] This American economist attributed scarcity to the unequal distribution of land. He proposed overcoming this problem by issuing a single tax on all undeveloped land in his book *Progress and Poverty*.

ANSWER: Henry **George**

<Bailey>

21. These cells are found in Howship's lacunae. For 10 points each:

[10] Name these multinucleated cells formed from fused monocytes. They secrete acid phosphatases like TRAP, and proteases like cathepsin K, from the ruffled border, causing the breakdown of elastin and collagen.

ANSWER: **osteoclasts** [do not accept or prompt on "osteoblasts"]

[10] Inhibitors of osteoclast activity can help prevent this condition, which causes bone density to diminish. It's most common in elderly patients.

ANSWER: **osteoporosis**

[10] The protons released by osteoclasts through the ruffled border are generated through the action of this enzyme. This catalytically perfect enzyme buffers blood by catalyzing the conversion of carbon dioxide to bicarbonate.

ANSWER: **carbonic anhydrase**

<Silverman>

22. Along with Charles Crocker, Mark Hopkins, and Collis Potter Huntington, this tycoon was a member of the "Big Four". For 10 points each:

[10] Name this businessman who named a university for his dead son. He commissioned Eadweard Muybridge to figure out if a galloping horse ever had all of its feet off the ground.

ANSWER: Amasa Leland **Stanford**

[10] Stanford's company built the western portion of this project, which was finally completed with the hammering of a golden spike at Promontory, Utah.

ANSWER: First **Transcontinental Railroad** [or **Pacific Railroad**; prompt on "Overland Route"]

[10] Stanford, like this later man, served as governor of California. This eventual Chief Justice of the Supreme Court lost the 1916 presidential election to Woodrow Wilson.

ANSWER: Charles Evans **Hughes**, Sr.

<Bentley>

23. Colin Revell investigates the deaths of two brothers at the Oakington school in this man's only detective novel, *Was it Murder?*. For 10 points each:

[10] Name this British novelist who wrote about a party of Westerners crash-landing in the Tibetan mountains, where they come across a lamasery in a valley that confers greatly extended life on its inhabitants, in his novel *Lost Horizon*.

ANSWER: James **Hilton**

[10] This valley is the setting of much of *Lost Horizon*. Its name has come to metonymically refer to any similar utopian paradise hidden from modern man.

ANSWER: **Shangri-La**

[10] James Hilton's other most famous novel is this story of an old-fashioned schoolteacher's extensive career teaching Latin and Greek at the fictional Brookfield Grammar School.

ANSWER: **Goodbye, Mr. Chips**

<Carson>