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## TOSSUPS

1. After meeting with the Amsterdam printer and rabbi Menasseh ben Israel, this leader agreed to allow Jews back into England. This man and his son-in-law Henry Ireton defended a conservative peace treaty known as the Heads of Proposals at the Putney Debates, where they were challenged by a radical faction known as the Levellers. This man seized (\*) absolute power via a constitution known as the Instrument of Government after the collapse of the Barebone's Parliament. He led the cavalry in the New Model Army during the English Civil War. For 10 points, name this Lord Protector who ruled England after the beheading of Charles I.

ANSWER: Oliver Cromwell

2. Spirits in this religion each have a unique symbol called a veve drawn on the floor with cornmeal and ash. This religion believes that the soul is composed of two parts called the big good angel and the little good angel. Temples in this religion are called hounfours, and priests in this religion include (\*) houngans and mambos. This religion's supreme god Bondye is served by loa ("**LOW**"-ah) such as Papa Legba and Baron Samedi. For 10 points, name this syncretic religion found in Louisiana and Haiti, commonly associated with zombies and namesake evil dolls.

ANSWER: Voodoo

3. Individual members of this group of elements can form complexes with specific crown ethers, which act as phase transfer catalysts. The hyperfine transition of a member of this group is used to define the second, and is commonly used to construct atomic clocks. This group's members have the lowest first ionization energies because of their unfilled (\*) s orbitals. This group of elements is commonly stored under mineral oil to prevent oxidation, and they react violently with water creating an explosion. For 10 points, name this group of elements that contains sodium and potassium.

ANSWER: alkali metals [or group 1 elements; or group IA elements; prompt on "alkali"; prompt on "lithium group"; do not accept "alkaline earth metals"]

4. This author translated a passage of Ecclesiastes into "modern English of the worst sort" in one of his essays. In one of his short stories, this author of "Politics and the English Language" wrote about strong native pressure to kill the title animal, who had trampled some natives. In a novel by this author, Syme explains that narrowing language down to words such as (\*) "ungood" and "doubleplusgood" makes political dissidence harder because there are no words to express it. This author of "Shooting an Elephant" depicted the regime of Big Brother, who controls the lives of Oceania residents like Winston Smith. For 10 points, name this author of *1984*.

ANSWER: George Orwell [or Eric Arthur Blair]

5. A string quartet by this composer opens with a rising theme said to depict the title *Sunrise*. One of his symphonic second movements uses a triangle, cymbals, and a bass drum to imitate Turkish music. This composer of the *Military* Symphony wrote variations on the melody to "Deutschland über alles" in the second movement of his (\*) *Emperor* Quartet, published in a set of six titled *Erdödy*. Musicians walk off stage one by one towards the end of this composer's *Farewell* Symphony. In another of his symphonies, a quiet second movement is interrupted by a sudden loud chord. For 10 points, name this composer of the *Surprise* Symphony.

ANSWER: Joseph Haydn [or Franz Joseph Haydn]

6. In West African folklore, the spider god Anansi obtains all the stories in the world by tying a tree branch to this animal and additionally collecting a leopard and a swarm of hornets. Isis uses a wound from this animal to extort Ra into revealing his secret name. Garuda's mortal enemy is a family of these animals called (\*) *nagas*. During Ragnarok, this type of animal and Thor do battle and slay each other. Quetzalcoatl is a "feathered" variety of this animal, while the Norse monster Jormungandr is the "Midgard" variety. Two of these animals wrap around Hermes's caduceus staff. For 10 points, name these animals found in the hair of Medusa.

ANSWER: snake [or serpent; or python; or viper; or naga before "*nagas*"]

7. In a short story by this author, the title "Umbrella Man" sells stolen umbrellas to strangers while pretending to be a feeble old man. This author wrote a murder story in which the killer laughs uncontrollably after the detectives remark that the murder weapon is probably right under their noses. This author, who detailed his time in the British RAF in his memoir *Going Solo*, wrote "Lamb to the Slaughter." This author wrote about a girl who loses her (\*) telekinetic powers after being adopted by a schoolteacher and created the farmers Boggis, Bunce, and Bean, who are outsmarted by animals digging tunnels beneath their farm. For 10 points, name this author of *Fantastic Mr Fox* and *Matilda*.

ANSWER: Roald Dahl

8. This mountain range contains the only habitat of the vicuña (*vee-koon-yah*), a wild species of camelid highly valued for its wool. This mountain range's flora includes the cinchona tree, whose bark was historically used to make quinine (*KWY-"nine"*) for malaria treatments. Its namesake condor has the largest wingspan of any flying bird in the Western Hemisphere. This mountain range is the native habitat of both the (\*) chinchilla and the guinea pig. This range contains a plateau region known as the Altiplano (*ahl-tee-PLAH-noh*), where the first-ever potatoes were cultivated. For 10 points, name this South American mountain range that is the native habitat of alpacas and llamas.

ANSWER: Andes (*ahn-deez*) Mountains

9. One segment of these cells is guided by a growth cone during development and were extensively studied in giant squid. The reticular theory was replaced with the namesake theory of these cells, which was proposed by Santiago Ramon y Cajal. The Nissl substance is a form of rough endoplasmic reticulum found in these cells, which can be colored black with a Golgi stain. Saltatory conduction occurs between (\*) oligodendrocytes (*OH-lib-goh-DEN-droh-cytes*) that line the area between the nodes of Ranvier with an insulating layer of myelin. These cells have a central soma with dendrites that receive signals across a synapse. For 10 points, name these cells found in the central and peripheral nervous systems.

ANSWER: neurons [accept nerve cells before "nervous system"]

10. Prior to this battle, one side switched from a beachfront defense strategy to an inland defense strategy, and "banzai" charges were banned by general Tadamichi Kuribayashi (*tah-dah-MEE-chee koor-ee-"bye"-YAH-shee*) on account of their ineffectiveness. It's not the Battle of Okinawa, but the Japanese built an extensive system of bunkers connected by underground tunnels in preparation for this battle, during which American Marines sustained heavy casualties to seize Mount (\*) Suribachi (*sur-uh-BAH-chee*) early on. It ended less than a week before the Battle of Okinawa began in April 1945. For 10 points, name this World War II battle where Joe Rosenthal photographed six U.S. soldiers raising a flag.

ANSWER: Battle of Iwo Jima

## HALFTIME

11. This thinker stated that anxiety preceded sin in a work that posits that the first instance of anxiety involved Adam's consumption of an apple from the tree of knowledge. In another work, he used "life views" to contrast the aesthetic and ethical spheres of existence. Those works, the first of which is *The Concept of Anxiety*, were published under the names Vigilius Haufniensis (*vih-JIH-lius hauf-"knee"-EHN-sis*) and Victor Eremita respectively, two of the many (\*) pseudonyms this philosopher employed. A discussion of Abraham's sacrifice of Isaac is central to his book *Fear and Trembling*. For 10 points, name this Danish existentialist author who wrote *Either / Or*.

ANSWER: Søren Aabye Kierkegaard [accept Vigilius Haufniensis and Victor Eremita before stated]

12. A Franciscan monk in a novel by this author is burned at the stake after compiling a book of interviews. In that novel by this author, Brother Juniper investigates five deaths caused by the collapse of a structure. The hymn "Blessed be the Tie that Binds" is sung by a choir in the first act of a play written by this author. The second act of that play by this author concerns the marriage of (\*) George and Emily, and in the third act, Emily chooses to relive her twelfth birthday after she dies during childbirth. The Stage Manager concludes that play by this author by telling the audience "most everybody is asleep in Grover's Corners." For 10 points, name this American playwright of *The Bridge of San Luis Rey* and *Our Town*.

ANSWER: Thornton Wilder [or Thornton Niven Wilder]

13. The Section 5 "preclearance" clause of a law regarding this action was overturned in *Shelby County v. Holder*. Lena Dunham, Fred Armisen, Whoopi Goldberg, and Lil Jon teamed up in an October 2014 media campaign advocating this action. *Crawford v. Marion County* upheld the constitutionality of (\*) photo ID restrictions to participation in this practice. The Fifteenth and Nineteenth Amendments abolished restrictions to this practice, which saw its lowest participation rates in 2014 since World War II. For 10 points, name this practice in which citizens cast ballots to express the way they wish to be represented by government.

ANSWER: voting in the United States [or suffrage]

14. Lieutenant Hartman fights over one of these things at Remagen in a 1969 war film starring George Segal. Sean Connery played a British general tasked with capturing one of these things at Arnhem in a 1977 Richard Attenborough film. At the end of a movie based off a Pierre Boulle novel, the collaborationist British officer Nicholson dies after (\*) blowing up one of these things built by the Japanese. Many of the Americans in *Saving Private Ryan* are killed by a tank while trying to blow up one of these things to stop a German advance. For 10 points, name these transportation structures often depicted in World War II films, including one "On the River Kwai".

ANSWER: bridges [accept specific types such as railway bridges; accept *The Bridge at Remagen* or *A Bridge Too Far* or *The Bridge on the River Kwai*; prompt on "railway" or "road" or similar answers]

15. After a leader of this non-Italian country tried to negotiate a separate peace with the Allies during World War II, his son was kidnapped by the German commando Otto Skorzeny. Admiral Miklos Horthy led a royalist government in this country for two decades, following the collapse of Bela Kun's short-lived Communist republic in 1919. After World War I, this country lost over two-thirds of its territory in the Treaty of (\*) Trianon, which ended this country's union with its western neighbor. In 1867 Austria joined a "dual-monarchy" with, for 10 points, what Central European country whose capital is Budapest?

ANSWER: Hungary [or Kingdom of Hungary or Magyar Királyság]

16. This artist, who depicted Holy Roman Emperor Maximilian I holding a pomegranate, sketched a pair of *Praying Hands* on blue colored paper. A skull rests on a window ledge and a lion lies on the ground at the foreground of one of this artist's engravings. Besides that version of *Saint (\*) Jerome in His Study*, this man included a figure with an hourglass on a pale horse in his *Knight, Death, and the Devil*. This man painted a self-portrait noted for its resemblance to Christ and portrayed Death, Famine, War, and Plague in one work. *The Four Horsemen of the Apocalypse* is by, for 10 points, what German artist of many woodcuts?

ANSWER: Albrecht Dürer

17. This man collaborated with his mentor John Wheeler to create a namesake absorber theory based on time symmetry, which he later modified to use a sum-over-histories method in the path integral formulation. Along with Schwinger and Tomonaga, this man developed a theory of electromagnetism based on quantum mechanics, quantum electrodynamics. One creation of this man can use two converging (\*) arrows and a squiggly line to model an electron-positron annihilation to form a photon. For 10 points, name this American physicist known for his namesake diagrams and Caltech lectures.

ANSWER: Richard Feynman [or Richard Phillips Feynman]

18. One of this planet's moons has a very prominent crater that makes it resemble the Death Star. In addition to Mimas, two of this planet's moons named Pandora and Prometheus act as shepherds for one of its rings, which is separated by the Roche ("ROW"-shh) Division from its inner rings. This planet's largest moon has a dense atmosphere and is bigger than Mercury, and the largest gap in this planet's ring system is the (\*) Cassini Division, which separates the A ring from the B ring. This planet's diffuse E ring stretches from beyond the more defined ones all the way to Rhea and Titan. For 10 points, name this gas giant just past Jupiter, the one most famous for its rings.

ANSWER: Saturn

19. Visions portending this event include a lioness giving birth in the street and men washing their hands in a fountain. In this event's aftermath, a man gives a speech pointing out that "the good" that men do "is oft interred with their bones" before calling this event the "most unkindest cut of all." While commemorating this event, a speaker beseeches an audience to (\*) "lend [him their] ears." The victim of this event is instructed to "beware the ides of March," the day on which he pitifully asks "Et tu, Brute?" before falling. For 10 points, name this event in which Brutus and Cassius kill the title character of a historical Shakespeare play.

ANSWER: the assassination of Gaius Julius Caesar [accept equivalents for "assassination" like murder or death]

20. This event was recounted by Matt Bissonnette in his memoir *No Easy Day*. In May 2015 the journalist Seymour Hersch controversially claimed that the U.S. fabricated the official story for this event. This event was codenamed Operation Neptune Spear, and its target was codenamed "Geronimo." Its planners are seen sitting in the photograph *Situation Room*, which shows (\*) Hillary Clinton holding her hand over her mouth. After this event, a stealth helicopter accidentally crashed down in Abbottabad, and the body of the target was dumped into the Arabian Sea. For 10 points, name this killing carried out by Seal Team Six.

ANSWER: killing of Osama bin Laden [accept any description that mentions either underlined part; accept Operation Neptune Spear before mentioned]

**END OF REGULATION, PROCEED ONLY IF TIED**

21. A cross-dressing female musician in this novel is described by the author as having the "physiognomy" of a man, hinting at her homosexuality. This novel ends with the declaration that "all human wisdom" is contained in the phrase "Wait and Hope." After disowning his father in this novel, Albert (\*) de Morcerf enlists in the army and goes to Africa. This novel's protagonist is imprisoned in the Chateau D'If after being framed for being a Bonapartist, after which he is tutored by the Abbe (ah-BEY) Faria. For 10 points, name this novel following the many revenge plots of Edmond Dantes (dahn-tez) written by Alexandre Dumas.

ANSWER: *The Count of Monte Cristo* [or *Le Comte de Monte-Cristo*]

22. To raise awareness about a standoff at one of these places between protesters and the FBI, Marlon Brando refused to accept his Oscar in 1973. Andrew Jackson supposedly declared "John Marshall has made his decision; now let him enforce it!" after the Supreme Court overruled a state law regulating these places in *Worcester v. Georgia*. These areas were divided into plots of individually-owned land by the (\*) Dawes Act of 1887. At one of them called Pine Ridge, members of the Ghost Dance movement were shot in the Wounded Knee Massacre. For 10 points, name these areas that now contain many tribal-run casinos.

ANSWER: Native American reservations [or Indian reservations; or tribal reservations; accept similar answers like Indian lands or Native American nations or tribal territory; accept Wounded Knee before mentioned]

## BONUSES

1. This song features a saxophone solo by Paul Desmond, and its opening rhythm is broken up into three measures of 2+2+2+3, followed by one measure of 3+3+3. For 10 points each:

[10] Name this track in 9/8 time with a rhythm inspired by its composer's visit to the title country, where a street performer compared that rhythm to a popular American style of music.

ANSWER: "**Blue Rondo a la Turk**"

[10] "Blue Rondo a la Turk" appeared on *Time Out*, an album by this jazz musician that also features a drum solo by Joe Morello on its track "Take Five."

ANSWER: Dave **Brubeck** [or David Warren **Brubeck**]

[10] Dave Brubeck, Thelonious Monk, and Herbie Hancock played this keyboard instrument, for which Scott Joplin wrote the pieces "Maple Leaf Rag" and "The Entertainer."

ANSWER: **piano** [or **pianoforte**]

2. This ruler's biography discusses the Norman invasion of Sicily and was written by his daughter Anna. For 10 points each:

[10] Name this emperor whose request for help against the Turks led Pope Urban II to declare the First Crusade at the Council of Clermont in 1095.

ANSWER: **Alexios I** Komnenos [or **Alexius I** Comnenus; prompt on "Alexios" or "Alexius"]

[10] Alexios ruled this empire, whose capital of Constantinople was conquered by the Ottoman sultan Mehmed II in 1453.

ANSWER: **Byzantine** Empire [or **Eastern Roman** Empire; or **ERE**]

[10] Just two decades before the First Crusade, the Byzantines were crushingly defeated at the Battle of Manzikert by this Turkish group, which ruled Anatolia before the Ottoman Empire.

ANSWER: **Seljuq** dynasty [or **Seljuk** Turks; accept **Seljuk** Empire; accept Sultanate of **Rum**]

3. This essay shares the author's experiences being kicked off the grass and being denied entrance into a library. For 10 points each:

[10] Name this essay by Virginia Woolf that contemplates the fate of a hypothetical "Judith Shakespeare" and states that the title location is necessary for a woman to write.

ANSWER: "A **Room of One's Own**"

[10] This lover of Jean-Paul Sartre (**SAR-truh**) analyzed and praised the moments of "luminous happiness" in Woolf's works in her treatise *The Second Sex*.

ANSWER: Simone de **Beauvoir** (**boh-VWAHR**)

[10] Beauvoir advanced this ideology in *The Second Sex*. Betty Friedan kicked off the second-wave of this ideology upon publishing her magnum opus in 1963, after conducting a survey of unhappy housewives.

ANSWER: **feminism**

4. This technique can be used to determine the identity of individual molecules and larger macromolecules that have broken up. For 10 points each:

[10] Name this laboratory technique that measures the size of particles by accelerating charged particles in a magnetic field and measuring their deflection.

ANSWER: **mass spectrometry** [or **mass spectrography**; prompt on "spectrometry" or "spectrography"]

[10] Mass spec gives results as  $m/z$  ("**m over z**"), where  $z$  is equal to charge over this quantity. This quantity is the smallest possible unit of charge.

ANSWER: **fundamental** charge [accept  **$1.6 \times 10^{-19}$  Coulombs** or **elementary** charge; prompt on "charge of an electron," "proton," "positron," or "antiproton"]

[10] In one variant of mass spec, this value is measured instead of deflection, with particles accelerated through a constant potential and fired a fixed distance. This quantity varies between particles because they gain different amounts of kinetic energy.

ANSWER: **time**-of-flight mass spectrometry

5. This thinker was a student of Aimé Césaire (**ay-may say-zar**), who tried to give colonized Africans an identity by founding a literary movement called *négritude*. For 10 points each:

[10] Name this Martinican postcolonial thinker who defended the use of violence to achieve colonial independence in *The Wretched of the Earth*.

ANSWER: Frantz Omar **Fanon** [accept Ibrahim **Fanon**]

[10] This Nigerian criticized the *négritude* movement, saying "a tiger does not proclaim its tigritude." This playwright wrote about Elesin Oba's suicide in *Death and the King's Horseman*.

ANSWER: Wole **Soyinka** [or Akinwande Oluwole Babatunde **Soyinka**]

[10] Fanon's *Black Skin, White Masks* criticized this medium for colonizing children's minds by portraying heroes as white and villains as black. Attempts to increase this genre's diversity include DC's addition of a Lebanese Green Lantern.

ANSWER: **comic books** [accept **comics**; prompt on "superheroes"]

6. This man is born grasping the heel of his elder brother, from whom this man later steals his inheritance. For 10 points each:

[10] Name this Biblical patriarch and brother of Esau, whose name is changed to Israel in the aftermath of a wrestling match with an angel.

ANSWER: **Jacob** [or **Ya'akov**; or **Yacoub**]

[10] The priest class of Israel descends from this third son of Jacob, who along with his brother Simeon is denied land in Israel due to their massacre of Shechem.

ANSWER: **Levi (LEE-vye)** [or **Levy**]

[10] This son of Jacob and owner of a colorful coat becomes the pharaoh's right-hand man when he is sold into slavery in Egypt by his jealous brothers.

ANSWER: **Joseph** [or **Yosef**; or **Yusuf**]

7. When this god is unable to find a healing herb on a vast mountain, he lifts the entire mountain and brings it to the wounded Lakshmana. For 10 points each:

[10] Name this god who jumps across the Palk Strait in one giant leap in order to spy on the island fortress Lanka.

ANSWER: **Hanuman** [prompt on "Maruti"; prompt on "Anjaneya"; prompt on "Bajrangbali"]

[10] In an epic poem by the Sanskrit poet Valmiki, Hanuman aids this hero in his quest to rescue his wife Sita from the clutches of the evil demon Ravana.

ANSWER: **Rama** [or **Ram**]

[10] Ravana is a devout follower of this Hindu destroyer god, who equips his decapitated son Ganesha with the head of an elephant.

ANSWER: **Shiva** [or **Shiv**; prompt on "Mahadeva"; prompt on "Nataraja"]

8. The wild phenotype of these organisms has red eyes and a yellowish color, with black bars that vary between the male and the female. For 10 points each:

[10] Name this type of insect, commonly used as a model organism because of its short generation time and low number of chromosomes.

ANSWER: common **fruit fly** [or **Drosophila melanogaster**]

[10] This man was the most famous to work with *Drosophila*. In honor of his work in genetics, the unit of genetic linkage was named after him.

ANSWER: Thomas Hunt **Morgan** [accept centimorgan]

[10] The sevenless gene in *Drosophila* codes for a tyrosine kinase essential for the formation of ommatidia in this sensory organ. This organ contains eight rhabdomeres, which contain several million molecules of rhodopsin.

ANSWER: compound **eyes**

9. Herbert von Karajan was a man with this profession who chose to stay in Germany during the rise of fascist Europe, unlike his colleagues Arturo Toscanini and Otto Klemperer. For 10 points each:

[10] Name these people who lead the orchestra by counting beats and controlling the overall sound of the performance, usually by waving a baton.

ANSWER: **conductor**

[10] The Walt Disney Concert Hall is home to this American orchestra currently led by the Venezuelan conductor Gustavo Dudamel.

ANSWER: **Los Angeles Philharmonic** Orchestra [or **LA Phil**; or **LAPO**; prompt on "Los Angeles" or "LA"]

[10] Leonard Bernstein led the New York Philharmonic in a series of educational concerts named for this group of people. These people title a Benjamin Britten piece that comprises thirteen variations and a closing fugue.

ANSWER: **young** people [or **young** person; or **Young People's Concerts**; or *The Young Person's Guide to the Orchestra*]

10. This man depicted two embracing stone figures in his rendition of *The Kiss*. For 10 points each:

[10] Name this Romanian sculptor who created a World War I memorial consisting of 17 stacked rhomboidal modules, titled *The Endless Column*.

ANSWER: Constantin **Brâncuși** (**breng-koosh**)

[10] Brancusi also made several sculptures focusing on the movement of these animals "in space." John James Audubon painted many American species of these animals for his seminal work of ornithology.

ANSWER: **birds** [accept **Bird in Space**]

[10] Brancusi is most often associated with the Futurist movement, which included this creator of the *Stages of Mind* series. This man also drew on the movement of a soccer player in his sculpture of a gold armless figure, *Unique Forms of Continuity in Space*.

ANSWER: Umberto **Boccioni**

11. This country ended its interregnum period after John I won the 1385 Battle of Aljubarrota (**ahl-joo-bah-RO-tah**). For 10 points each:

[10] Name this kingdom in western Iberia, where John's son Henry the Navigator began the European Age of Discovery.

ANSWER: **Portugal** [or Kingdom of **Portugal** and the Algarves; or Reino de **Portugal** e dos Algarves; or Regnum **Portugalliae** et Algarbiae]

[10] John founded this dynasty that ruled Portugal until 1580. John's illegitimate son Afonso started its cadet branch, the House of Braganza.

ANSWER: House of **Aviz** (**ah-VEEZ**) [or **Aviz** Dynasty; or Casa de **Aviz**; or House of **Avis**]

[10] This Spanish king conquered Portugal after the Aviz Dynasty ended. He is more famous for marrying "Bloody Mary" of England.

ANSWER: **Philip II** of Spain [or **Felipe II** of España; or **Philip I of Portugal**; prompt on "Philip" or "Felipe"]

12. Name some prominent female Gothic writers, for 10 points each.

[10] This novelist of *A Garden of Earthly Delights* wrote a short story full of demonic imagery in which Connie is pressured into getting into the car of Arnold Friend, called "Where Are You Going? Where Have You Been?"

ANSWER: Joyce Carol **Oates**

[10] A fight between Marvin Macy and Miss Amelia Evans is broken up by the hunchbacked Lymon in this author's *The Ballad of the Sad Cafe*. She also wrote *The Heart is a Lonely Hunter*.

ANSWER: Carson **McCullers**

[10] The Southern Gothic movement was inspired by the earlier Gothic movement, which included this female author of *Frankenstein*.

ANSWER: Mary **Shelley**



13. For 10 points each, answer the following about *The Clash of Civilizations*, an influential book published in 1996 by political scientist Samuel Huntington.

[10] According to Huntington, Western civilization faces its greatest threat from the Sinic (**SYE-nik**) civilization, which centers around this most populous country in the world.

ANSWER: **China** [or the People's Republic of **China**; or **PRC**; or **Zhōngguó**; or **Zhōnghuá Rénmín Gònghéguó**; do not accept "Republic of China"]

[10] Huntington also claims that some countries are "torn" between different civilizations, such as this Muslim country that is led by president Recep Erdoğan.

ANSWER: **Turkey** [or Republic of **Turkey** or **Türkiye Cumhuriyeti**]

[10] Huntington's critics include the Palestinian-American theorist Edward Said (**SYE-eed**), who is best known for writing this 1978 book about how the West historically depicted the East as an inferior "Other."

ANSWER: **Orientalism**

14. This court case names an early 20th century era where the Supreme Court consistently pushed for conservative policies. For 10 points each:

[10] Name this 1905 case that used the "freedom of contract" right in the 14th Amendment to strike down a New York law limiting the maximum hours that bakers could work.

ANSWER: **Lochner** ("**LOCK**"-ner) *v. New York*

[10] This President is sometimes credited with ending the Lochner Era through his "court-packing" plan, which he proposed after the Supreme Court repeatedly struck down his New Deal policies.

ANSWER: **Franklin Delano Roosevelt** [or **FDR**; prompt on "Roosevelt"]

[10] Roosevelt's court-packing plan was motivated by this 1935 case, in which the Supreme Court struck down regulations on the poultry industry created by the National Industrial Recovery Act. Nickname acceptable.

ANSWER: **Schechter Poultry Corp. v. United States** [accept **sick chicken** case]

15. President James Garfield used this shape to prove the Pythagorean theorem. For 10 points each:

[10] Name this class of quadrilaterals that may include parallelograms, depending on whom you ask. They have a pair of parallel sides called bases and two other sides called legs.

ANSWER: **trapezoid** [or **trapezium**]

[10] This adjective describes trapezoids whose non-parallel legs have equal length. This type of trapezoid also has congruent base angles and congruent diagonals.

ANSWER: **isosceles** trapezoid [or **isosceles** trapezium]

[10] Trapezoids can be used as better approximations than rectangles in numerical integration with this kind of data, which possesses a finite number of separate points.

ANSWER: **discrete**

16. Answer the following about figs or thistles, for 10 points each.

[10] This woman wrote the collection *A Few Figs from Thistles*, whose "First Fig" declares "My candle burns at both ends; it will not last the night!"

ANSWER: Edna St. Vincent **Millay** [or Nancy **Boyd**]

[10] This African-American asked "Who even gave two figs?" in her poem "The white troops had their orders." In another poem, she wrote about a group of miscreant pool players who "lurk late," "strike straight," "jazz June," and "die soon."

ANSWER: Gwendolyn **Brooks** [or Gwendolyn Elizabeth **Brooks**]

[10] This damsel in distress is trapped in a tower and lets down her hair so a prince can climb up, but that prince falls into some bushes and is blinded by the thistles.

ANSWER: **Rapunzel**

17. American politics from 1896 to 1932 is sometimes referred to as the Fourth Party System. For 10 points each:

[10] In the Fourth Party System, the White House was dominated by this major political party, whose members included William McKinley and Calvin Coolidge.

ANSWER: **Republican** Party

[10] During the Fourth Party System, this nickname was given to journalists who tried to reform society by investigating corruption and social wrongs.

ANSWER: **muckrakers**

[10] One reform instigated during the Fourth Party System was accomplished through ratification of the 17th Amendment, which gave this power to the people instead of state legislatures.

ANSWER: direct **election** of **Senators** to the Congressional Senate [accept equivalents such as "**choosing senators**," etc.; prompt on "election of Congressmen" or similar answers]

18. The Leakey family of archaeologists conducted much of their work at this gorge. For 10 points each:

[10] Name this Tanzanian gorge, a section of the East African Rift that has been a major source of early hominid fossils.

ANSWER: **Olduvai (OHL-doo-vye) Gorge** [or **Oldupai** Gorge]

[10] The Olduvai Gorge is in this grassland region of northern Tanzania and southern Kenya, which is renowned for its diverse wildlife.

ANSWER: **Serengeti** Plains

[10] The Serengeti Plain lies southeast of this largest African Great Lake, which is considered the source of the White Nile River.

ANSWER: Lake **Victoria**

19. The effect of temperature on reaction rate can be visualized as the fraction of this distribution beyond the activation energy. For 10 points each:

[10] Name this distribution that describes the probability of a particle in thermodynamic equilibrium having a given energy.

ANSWER: **Maxwell-Boltzmann** distribution

[10] When using the Maxwell-Boltzmann distribution, one has to include normalizing factors to ensure the sum of all the probabilities equals this value.

ANSWER: **one** [or **unity**]

[10] Boltzmann also developed a namesake H-theorem, which was adapted into this law. This law describes increases in entropy as an irreversible process.

ANSWER: **second** law of **thermodynamics**

20. In this play, Sam shows his "Basuto buttocks" to the title character, who then spits into his face. For 10 points each:

[10] Upon hearing of his father's return home from the hospital, the title teenager becomes more racist towards his black servants Sam and Willie in what Athol Fugard play set in South Africa?

ANSWER: **"Master Harold"...and the Boys**

[10] Sam and Willie open and close "*Master Harold"...and the Boys* by performing this activity. Sam critiques Willie on the stiffness of his quickstep, a skill used in this activity.

ANSWER: ballroom **dancing**

[10] Sam asks Hally to play with this toy, but Hally says that "you can't" play with these objects "on rainy days." Khaled Hosseini titled one of his novels after a "Runner" of these objects .

ANSWER: **kites** [accept **kite** fighting; accept *The Kite Runner*; accept answers such as "flying a **kite**"]

21. This quantity can be calculated for a spherical object as proportional to negative 6 pi times viscosity. For 10 points each:

[10] Name this phenomenon, the resistance against an object's movement in a fluid.

ANSWER: **drag**

[10] That aforementioned equation is named for this man, who names a series of complicated partial differential equations governing fluid flow along with Navier.

ANSWER: George **Stokes** [accept **Stokes'** law or Navier-**Stokes** equations]

[10] Because Stokes' law assumes that this quantity is low, drag is proportional to the first power of velocity. This quantity is the ratio of momentum forces to viscous forces and is used to classify the flow of a fluid as either laminar or turbulent.

ANSWER: **Reynolds number**