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TOSSUPS

1. Aronson and Carlsmith tracked whether a group of these people would engage with a "Forbidden" object, in a study of cognitive dissonance. Another study concerning these people showed that some of them perceived a "visual cliff" while others moved along a sheet of glass. Albert Bandura found that these people became more violent towards a (*) Bobo doll after watching others do the same. The first five stages of Erikson's psychosocial development as well as Piaget's (pee-ah-JAY's) four stages of cognitive development concern these people, who, according to Freud, develop Oedipus and Electra complexes. For 10 points, what age group is commonly defined as being less than 18? ANSWER: children [accept babies, toddlers, kids, or other synonyms; tell people to be less specific on "boys" or "girls"]

2. This country's entry into World War II was unsuccessfully opposed by the conservative politician Maurice Duplessis and his Union Nationale. This country strengthened its national identity after fighting alongside the British at the Battle of Vimy Ridge in World War I. In August 1941, Franklin Roosevelt and Winston Churchill met in this country's Placentia Bay to decide on common goals in the Atlantic Charter. It entered World War II under prime minister (*) Mackenzie King, who built many air and naval bases in Newfoundland. For 10 points, name this country where wartime conscription was opposed by French speakers in Quebec.

ANSWER: Canada

3. Livestock in this novel rapidly reproduce, but are then wiped out due to four years of unceasing rain. A card reader in this novel lives to be 145 and is buried under a brothel dance floor. Its final protagonist dies deciphering the last sentences of a Sanskrit manuscript by Melquiades (mel-KEE-ah-daiss), a gypsy who showed a father and son the wonders of magnets and (*) ice. In this novel, alchemy is pursued by the father José Arcadio, who founded Macondo. For 10 points, name this magical realist novel chronicling seven generations of the Buendía family, a work of Gabriel García Márquez.

ANSWER: *One Hundred Years of Solitude* [or *Cien años de soledad*]

4. This organelle can be used to sequester toxic ions like strontium and cobalt-II. Osmotic pressure is maintained in paramecia by contractile examples of these organelles. In plants cells, this organelle is surrounded by a membrane called a tonoplast and is full of a dilute fluid called cell sap. Their food variant is used in digestion after (*) phagocytosis. The central example of this organelle is responsible for maintaining turgor pressure in plant cells and can take up 90% the cell's volume. For 10 points, name these organelles used to store water and other organic compounds that are effectively big vesicles.

ANSWER: vacuoles [accept contractile vacuoles, food vacuoles, or central vacuoles; prompt on "vesicles" before mentioned]

5. A criminal of this nationality organized the Havana Conference after he was deported from the U.S. in 1946. Immigrants of this nationality were derogatorily called "guineas" and "dagoes" ("day"- "goes"). Members of this nationality dominated the Commission, which was comprised of the Chicago Outfit and New York's Five Families. After a much-publicized trial for robbery and murder, two (*) anarchists of this nationality named Sacco and Vanzetti were executed in 1920. A wave of these immigrants fled from post-Risorgimento (ree-zawr-juh-MEN-toh) conflicts. For 10 points, name this nationality whose immigrants brought pizza to America.

ANSWER: Italian-Americans [accept word forms like Italy]

6. According to Geoffrey of Monmouth, exiles from this city settled Britain, whose first king was a man named Brutus of this city. Snorri Sturluson wrote that this city was the location of Asgard. Telamon married a princess of this city named Hesione (huh-SIGH-oh-nee) after her father failed to pay Poseidon and Apollo for building its walls, leading to his demise. A youth from this city was abducted from Mount (*) Ida by an eagle and replaced Hebe as cupbearer to the gods. A hero from this city stripped off the armor of Patroclus and was slain by Achilles (uh-"KILL"-eez). King Priam and his son Hector were from, for 10 points, what city sacked by the Greeks with the help of a namesake "horse"?

ANSWER: Troy [or Troia; or Ilion; or Ilios; or Ilium]

7. Though not Katherine Mansfield, an author who wrote in this language names a prize for Creative Dissent and wrote *The Garden Party*. In a novel in this language, a teen tries to cheer up his classmate by writing "Optimism is the opium of the masses!" on a postcard, leading to his political ostracism. A play in this language ends with (*) Alquist discovering that Primus and Helena are in love. A playwright who wrote in this language led the Velvet Revolution and became his country's president. This language was used to write *The Joke* and *R.U.R.* For 10 points, name this language used by authors Václav Havel, Karel Čapek (ka-RELL CHA-peck), and Milan Kundera, all of whom were based in Prague.

ANSWER: Czech language [prompt on "Bohemian"]

8. One form of this property can be measured in solution as a ratio by observing the rotation of light, a property that was first observed by Louis Pasteur. The terms ortho, meta, and para denote one kind of this property for an aromatic ring. E-Z notation is a generalized notation for this property around a double bond. Chiral centers prevent superposition to create one form of this property called (*) enantiomerism (e-NAHN-teo-mehr-ism). The compounds cyclohexane and hexene possess the structural form of this property. For 10 points, name these entities that possess the same chemical formula but different structures.

ANSWER: isomerism [accept stereoisomerism, geometric isomerism, or word forms; accept enantiomerism before mentioned]

9. This man included saxophonist Gerry Mulligan in his namesake "nonet," which produced songs including "Jeru" and "Budo" for Capital Records. This musician collaborated with virtuoso guitarist James McLaughlin during his "electric" period, producing the album *In a Silent Way*. The music of Joaquin (wah-keen) Rodrigo's *Concierto de Aranjuez* was highly influential in the production of this man's album (*) *Sketches of Spain*. This musician of *Birth of the Cool* included tracks such as "Freddie Freeloader" and "So What" on his most famous album. For 10 points, name this jazz trumpeter known for the album *Kind of Blue*.

ANSWER: Miles Dewey Davis III

10. In the C family, these objects can be shifted left or right with the use of two consecutive angle brackets. Two's complement notation uses the first of these objects, termed the most significant, to denote the sign of the integer. In Java, an int variable contains 32 of these units, with shorts and longs possessing smaller and larger amounts respectively. A group of four of these units is called a (*) nibble, and the use of octet to refer to eight of these units has been replaced by the use of byte. For 10 points, name these basic units of information that can store either a zero or a one, whose name is a portmanteau of "binary digit."

ANSWER: bits [prompt on "binary digit" until read; accept integer before "two's complement"]

HALFTIME

11. This author wrote a poem instructing the reader to "Tell me not... Life is but an empty dream!" This author of "A Psalm of Life" was the first American to translate Dante's *Divine Comedy* into English. This author claimed descent from the subjects of a poem of his which details the love triangle between John Alden, Priscilla Mullen, and (*) Miles Standish. The main character of another poem by this author explains "One if by land, and two if by sea." That poem by this author opens with the command "Listen my children and you shall hear" of the title character's actions. For 10 points, name this poet of "The Midnight Ride of Paul Revere."

ANSWER: Henry Wadsworth Longfellow

12. This man weeps when his rebellious son is killed after getting his long hair tangled in a tree branch. This man hunts out two hundred foreskins to win the hand of Michal in marriage. He intentionally puts Uriah the Hittite in the front lines of his army so that he can marry Uriah's widow (*) Bathsheba. This man is helped by his best friend Jonathan in escaping the many assassination attempts of this man's predecessor, Saul. As a young boy, he uses a single slingshot to kill the giant champion of the Philistines. For 10 points, name this king of Israel who slays Goliath.

ANSWER: David [or Dawud]

13. Infrared analysis of one of this artist's paintings revealed a calf extending over the central curling musician, part of a series by this artist inspired by the suicide of his friend Carlos Casagemas. A tapestry of one of this artist's paintings is located at the UN headquarters. He denied he was influenced by African masks for his painting of a Barcelona brothel. This artist of *The (*) Old Guitarist* and *Les Femmes d'Alger (O. J. R. Version O)* painted an enormous canvas depicting the bombing of a Basque village. He founded a movement with "analytic" and "synthetic" types with Georges Braque. For 10 points, name this influential Spanish Cubist painter of *Guernica*.

ANSWER: Pablo Picasso [or Pablo Diego José Francisco de Paula Juan Nepomuceno María de los Remedios Cipriano de la Santísima Trinidad Ruiz y Picasso]

14. This president forced Arthur St. Clair to resign as a general after St. Clair was routed at the Battle of Wabash by the Miami chief Blue Jacket and the Shawnee chief Little Turtle. During his presidency, "Mad" Anthony Wayne helped end a frontier war by winning the Battle of Fallen Timbers, and the British agreed to evacuate their forts in the Northwest Territory after he signed (*) Jay's Treaty. His Secretary of State Thomas Jefferson supported strengthening ties with France, while his Secretary of the Treasury Alexander Hamilton supported Britain. For 10 points, name this first president.

ANSWER: George Washington

15. After a rejection, the young Student in a short story by Oscar Wilde thoughtlessly throws away one of these objects created by a Nightingale, who pricks herself and stains the object with her heart-blood. William Blake wrote that "dark secret love / Does thy life destroy" in a poem addressed to a "Sick" one of these objects. (*) Robert Burns claims his "Luvie is like a red, red" type of these objects "that's newly sprung in June." For 10 points, name these objects, one type of which "by any other name would smell as sweet," according to Juliet Capulet.

ANSWER: roses [accept red roses; accept *The Nightingale and the Rose*; accept "The Sick Rose"; accept "A Red, Red Rose"; prompt on "flowers"]

16. This quantity is the ratio between kinematic and dynamic viscosity, and it is constant in an incompressible fluid. Variations in this quantity are used to measure temperature in a thermometer developed by Galileo. This quantity is multiplied by terms for gravity and height in the potential term of Bernoulli's equation. The ratio of this quantity with that of (*) water is called specific gravity. In general, the ratio of this quantity with that of a fluid can be used to determine whether it will float by Archimedes' principle. For 10 points, name this value equal to mass over volume.

ANSWER: mass density

17. In response to the economic disruption caused by this event, Edward III of England required all people under the age of 60 to work and set a maximum wage cap via the Statute of Laborers. This event may have begun after the Golden Horde besieged a Genoese colony in Crimea. Thousands of Jews in Germany were massacred for allegedly causing this event by poisoning wells. The (*) Flagellant movement, whose members whipped themselves in religious penance, reached its greatest popularity during this event, which expanded in scope by following trade routes. For 10 points, name this 14th-century epidemic that killed a third of Europe.

ANSWER: Black Death [or bubonic plague or Black Plague or Great Plague or Great Pestilence; prompt on "plague" or "pneumonic plague" or "septicemic plague"]

18. This lake's southern shore became the site of the United State's first-ever copper boom when large scale mining began on its Keweenaw (KEE-wah-nuh) Peninsula in the mid-19th century. In 1975 the freighter *SS Edmund Fitzgerald* famously sank in this lake while sailing east from its port of Duluth (duh-LOOTH). Since 1958 it has been the site of a long-term study on the fluctuation of (*) wolf and moose populations at its Isle Royale ("aisle" "royal"). This lake's northern shore is home to Thunder Bay, and much of its southern shore is formed by the Upper Peninsula of Michigan. For 10 points, name this largest Great Lake.

ANSWER: Lake Superior [or Lac Supérieur]

19. This composer included a part for an anvil in the "Song of the Blacksmith" movement of a piece whose "Fantasia on the Dargason" was adapted into a suite with movements Jig, Ostinato, Intermezzo, and Finale. This composer of two suites for military band and the (*) *St Paul's Suite* called for a wordless choir to produce a fade-out effect at the end of a movement subtitled "The Mystic." The melody to the hymn "I Vow to Thee, My Country" was adapted from a theme in the "Bringer of Jollity" movement of this composer's piece about bodies such as Mars, Venus, and Jupiter. For 10 points, name this composer of *The Planets*.

ANSWER: Gustav Holst [or Gustav Theodore Holst; or Gustavus Theodore von Holst]

20. The "last in first out" system of hiring and firing people in this profession was ruled unconstitutional by the California Supreme Court in June 2014. In 2008 people of this profession in Washington D.C. opposed Michelle Rhee's attempt to change their compensation plans. It's not the police, but in January 2015, governor Andrew Cuomo announced his intention to reform this profession's (*) employee evaluation system in New York. In most states, people of this profession can gain tenure in just 2 years. For 10 points, name this profession whose members widely oppose being evaluated on the basis of standardized test scores.

ANSWER: teachers [accept specific types like public school teachers or high school teachers; do not accept "private school teachers" or "professors"]

END OF REGULATION, PROCEED ONLY IF TIED

21. The macula densa in this organ borders a structure that contains thick and thin portions, and that region in this organ is found in an apparatus that is responsible for creating the enzymes of the renin-angiotensin axis. One component of this organ can be classified as either juxtamedullar (juck-stuh-MED-yoo-lerr) or cortical based on its depth, and begins at Bowman's capsule. This organ contains the (*) glomerulus, which leads through the proximal convoluted tubule before entering the loop of Henle. The presence of aldosterone causes this organ to absorb more sodium from its filtrate, conserving water. For 10 points, name this organ that filters blood through nephrons to generate urine.

ANSWER: kidneys

22. In a novel with this color in its title, Japanese soldiers tie Arhat Liu to a post and skin him alive, while Commander Yu murders the son of a distillery owner and marries his widow. A field of study named after this color examines a novel in which a boy is born with a magical piece of jade in his mouth. In addition to describing sorghum in the title of a novel by Mo Yan, this color appears in the title of a novel in which (*) Jim Conklin dies after refusing help from his friend Henry Fleming, who deserts his regiment during a battle in the American Civil War. For 10 points, what color describes the title badge of courage in a novel by Stephen Crane?

ANSWER: red [or hóng; accept Red Sorghum *Clan* or Hóng Gāoliáng Jiāzú; accept Redology or hóng xué; accept Dream of the Red Chamber or Hóng Lóu Mèng; accept The Red Badge of Courage]

BONUSES

1. The function of this tissue is described by the pressure flow hypothesis, which moves substances through it via turgor pressure. For 10 points each:

[10] Name this plant tissue, which moves sugar through the plasmodesmata of neighboring cells from sources to sinks.

ANSWER: **phloem** (**FLOME**) [prompt on "vascular tissue"]

[10] Along with cytokinins, this plant hormone is responsible for the differentiation of plant tissue and the regulation of plant tropisms, and is typically transported through the phloem via polar transport.

ANSWER: **auxin** [accept **indole-3-acetic acid** or **IAA**]

[10] This gaseous plant hormone causes fruit to ripen and is actually responsible for leaf abscission, unlike the misleadingly named abscisic (**ab-SISS-ik**) acid.

ANSWER: **ethylene**

2. This man resigned as prime minister after the Conservatives lost in a landslide during the 1906 general election. For 10 points each:

[10] Name this Conservative British politician, who would later issue a namesake "Declaration" promising support for a Jewish homeland in Palestine.

ANSWER: Arthur **Balfour** [or Arthur James **Balfour**; accept **Balfour** Declaration]

[10] Balfour's ministry was heavily influenced by this colonial secretary, who promoted British imperialism during the Boer War. This man's son would become prime minister several decades later.

ANSWER: Joseph **Chamberlain**

[10] Balfour resigned as foreign secretary in 1919, while Britain and the rest of the Allies were negotiating this peace treaty to end World War I for Germany.

ANSWER: Treaty of **Versailles** (**vur-"sigh"**)

3. This effect is used to propel ions in a spaceship thruster with very high specific impulse. For 10 points each:

[10] Name this effect, which causes electrons in a current to move sideways in the presence of a magnetic field, creating a transverse current.

ANSWER: **Hall** effect

[10] A quantized version of the Hall effect was first discovered in a MOSFET (**"MOSS"-fet**) constructed from these materials. These materials can be either p- or n-doped and form junctions in circuit elements like transistors and diodes.

ANSWER: **semiconductors**

[10] The von Klitzing constant associated with the quantum Hall effect is also used as a standard for this quantity, because it takes the units of ohms. This quantity is multiplied by current to yield voltage in Ohm's law.

ANSWER: **resistance**

4. In this play, Reverend Hale begins to doubt the truth of several accusations from a group led by Abigail Williams. For 10 points each:

[10] Name this play about the 1692 Salem witch hunts written by Arthur Miller.

ANSWER: *The* **Crucible**

[10] Arthur Miller was inspired to write *The Crucible* during this period of the 1950s, in which suspected Communists were targeted in so-called "witch trials" led by Joseph McCarthy.

ANSWER: Second **Red Scare**

[10] In Lillian Hellman's *The Children's Hour*, two women of this profession are accused of having a lesbian relationship. The 1982 McMartin trial spurred accusations across America that people of this profession participated in Satanic ritual abuse.

ANSWER: preschool **teachers** [or obvious equivalents]

5. While disguised as a leopard, this god is branded with an iron by his jackal-headed son Anubis. For 10 points each:

[10] Name this malicious Egyptian god who jealously kills his brother Osiris and scatters his body parts throughout the land.

ANSWER: **Set** [or **Seth**]

[10] After being defeated in a series of contests, Set is forced to relinquish the throne of Egypt to this falcon-headed son of Isis and Osiris, who manifested himself in each pharaoh.

ANSWER: **Horus**

[10] Each night, Set accompanies Ra on his solar barge and does battle with this "flint-headed" serpent of chaos, who in some accounts is mauled to death by Ra in the form of a cat.

ANSWER: **Apep** [or **Apophis**]

6. This man ended his first inaugural address by asking his audience to "brave once more the icy currents and endure what storms may come." For 10 points each:

[10] Name this current president of the United States of America.

ANSWER: Barack **Obama** [or "Barack Hussein **Obama** II"]

[10] As a state senator from Illinois, Obama was propelled to the national spotlight when he delivered the keynote address at this event in 2004.

ANSWER: 2004 **Democratic National Convention** [or 2004 **DNC**]

[10] Obama named his DNC keynote address after this concept, which comes from a Jeremiah Wright sermon about a G.F. Watts painting. This concept also titles Obama's second book, written after he published *Dreams from My Father*.

ANSWER: *The **Audacity of Hope***

7. This process' exothermic properties are used to create portable hand heaters from super-saturated compounds that can perform it with a stimulus. For 10 points each:

[10] Name this phase change that is contrasted with melting.

ANSWER: **freezing** [accept word forms]

[10] Phase changes no longer exist beyond this point, where the difference between liquids and gases disappears. For water, it is at around 640 K and 200 atmospheres of pressure.

ANSWER: **critical** point

[10] This equation can be used to calculate the slopes of coexistence curves on a phase diagram given the latent heat and change of volume from a phase transition.

ANSWER: **Clausius-Clapeyron** equation

8. In 2003 Joseph Wilson disputed Bush administration claims that Saddam Hussein had purchased yellowcake uranium mined from this country. For 10 points each:

[10] Name this African country in the Sahara Desert, whose namesake river flows through its capital of Niamey.

ANSWER: **Niger** (**NYE-jer**) [or Republic of **Niger**; or Republique du **Niger**; accept **Niger** River]

[10] The world's leading source of high-grade uranium is widely considered to be the Athabasca Basin, which mostly sits in this Canadian province. This province shares Lake Athabasca with its western neighbor.

ANSWER: **Saskatchewan** (**sas-KAT-choo-ahn**)

[10] 31% of the world's proven uranium deposits are held in this country, a former British possession whose most populous city is Sydney.

ANSWER: **Australia** [or Commonwealth of **Australia**]

Moderator note: Emphasize the words "this trait" in the third part of this bonus

9. This man requests that his companions remember him as "One who loved not wisely, but too well." For 10 points each:

[10] Name this Shakespearean character, a Moor who beats his wife Desdemona and then smothers her after Iago tells him that she's been having an affair with Cassio.

ANSWER: Othello

[10] The first portion of *Othello* is set in this city. In another Shakespeare play set in this city, Portia disguises herself as a lawyer and outwits a vengeful moneylender.

ANSWER: Venice [accept *The Merchant of Venice*]

[10] While goading Othello into thinking Desdemona is cheating on him, the magnificently evil Iago tells Othello to "beware... of jealousy," calling it a "monster" with *this trait* "that doth mock the flesh it feeds on."

ANSWER: "green-eyed" [accept equivalent answers such as "it has green eyes"]

10. For 10 points each, answer some things about the Sui (swee) Dynasty.

[10] In the year 612 the Sui Dynasty launched a disastrous campaign against the Kingdom of Goguryeo, one of the Three Kingdoms located on this East Asian peninsula.

ANSWER: Korean Peninsula [accept Hanguk; accept Chosun]

[10] The Sui built this long canal that stretches from Beijing to Hangzhou (hahn-jo). It connects the Yellow and Yangtze (yang-see) rivers.

ANSWER: Grand Canal [or Da yun he]

[10] The original capital of the Sui Dynasty was at this city, which was renamed Daxing (DAH-shing) by the first Sui emperor. This city, which was also the center of power for the Tang Dynasty, is known today as Xi'an (SHEE-ahn).

ANSWER: Chang'an

11. For 10 points each, answer the following about groups that secretly control the world, man.

[10] In 1776 Adam Weishaupt founded this Enlightenment secret society of German freethinkers, many of whose members were also Freemasons. Conspiracy theorists associate this group with the weird eyeball pyramid on the back of the \$1 bill.

ANSWER: Illuminati [or Bavarian Illuminati]

[10] In the 1920s Henry Ford warned America of the global Jewish conspiracy by distributing large numbers of a forged pamphlet known as *The Protocols of the Elders of this place*.

ANSWER: Zion [accept *The Protocols of the Elders of Zion*]

[10] According to many modern-day conspiracy theorists, all of the world's governments are somehow controlled by this shadowy European group of political and industrial leaders, which first met at a namesake hotel in the Netherlands.

ANSWER: Bilderberg Group [or Bilderberg Club; or Bilderberg conference; or equivalents that mention Bilderberg]

12. The Islamic pillar of *salah* requires a Muslim to perform this activity five times a day. For 10 points each:

[10] Identify this religious activity that Muslims perform while facing towards Mecca.

ANSWER: prayer [accept equivalents]

[10] The Muslim call to prayer, or *adhan*, begins with this declaration of God's glory. In English, it is usually translated as "God is great."

ANSWER: allahu akbar [or the *takbir*; or *al-takbir*]

[10] The *takbir* is followed by a recitation of this profession that there is no god but God, and that Muhammad is his prophet.

ANSWER: the shahada [or *as-shahadah*; or *la ilaha illa-llah, muhammadur rasulu-llah*]

13. Name some things about the Great Railroad Strike, for 10 points each:

[10] The strike was put down by troops sent by this president, who had won a controversial election the previous year against Samuel Tilden.

ANSWER: Rutherford B. Hayes [or Rutherford Birchard Hayes]

[10] The strike began in Martinsburg in this state, which broke away from its eastern slave-holding neighbor in 1863.

ANSWER: West Virginia

[10] The eruption of the Great Railroad Strike coincided with the rise of this national labor union, which was led at the time by Terence Powderly.

ANSWER: Knights of Labor

14. The main character of this novel throws a fit when he sees his mother's maiden name in a school-provided textbook and realizes that it's over thirty years older than he is. For 10 points each:

[10] Name this Sherman Alexie novel about Junior, a Native-American with hydrocephalus.

ANSWER: *The Absolutely True Diary of a Part-Time Indian*

[10] Junior grows up in one of these places in Spokane, Washington. These places are legally managed by Native American tribes, rather than the U.S. government.

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

[10] In this novel by Scott O'Dell, Karana befriends an otter and a wild dog she names Rontu. This novel is based on the story of Juana Maria, a Native American who was stranded on a California island for 18 years.

ANSWER: *The Island of the Blue Dolphins*

15. In *On Certainty*, the author claims that if he were wrong about his home address, the mistake would be "hardly less" than if he wrongly believed himself to be writing in this foreign language. For 10 points each:

[10] A John Searle (**rhymes with "pearl"**) thought experiment likens artificial intelligence to a room containing a human who converses in what foreign language, despite not actually knowing it?

ANSWER: Chinese [accept Chinese Room Argument; prompt on "Mandarin"]

[10] This author of *On Certainty* also wrote the *Blue and Brown Books*, which contained nascent ideas such as that of "language-games" that were further developed in his *Philosophical Investigations*.

ANSWER: Ludwig Josef Johann Wittgenstein

[10] *On Certainty* argues against skepticism. This other philosopher favored academic skepticism over Pyrrhonian skepticism in the end of his *An Enquiry Concerning Human Understanding*.

ANSWER: David Hume

16. Controversy raged over whether this ship had been hit by one or two torpedoes. For 10 points each:

[10] Name this British passenger liner that was sunk by a German U-boat in 1915, enraging the American public.

ANSWER: RMS Lusitania

[10] After Woodrow Wilson issued a sharply worded note against Germany in the aftermath of the *Lusitania* sinking, this man resigned as Wilson's Secretary of State.

ANSWER: William Jennings Bryan

[10] In 1993 the wreck of the *Lusitania* was investigated by this deep sea explorer, who had previously discovered the wreck of the RMS *Titanic*.

ANSWER: Robert Ballard

17. At the end of a novel about one of these places numbered "13," Oleg Kostoglotov visits a zoo and leaves a note for Vera before departing on a train to Ush-Terek. For 10 points each:

[10] Identify this kind of place in Russian literature. Dr. Andrey Rabin is beaten by Nikita and dies of a stroke while locked up in one of these places numbered "6."

ANSWER: ward [accept Cancer Ward or Ward No. 6 or Ward No. 13]

[10] Ward Number 13 is the primary setting of *Cancer Ward*, a novel by this Russian author who discussed the life of a gulag prisoner in *One Day in the Life of Ivan Denisovich*. (**deh-NEESE-oh-vich**)

ANSWER: Aleksandr Solzhenitsyn [or Aleksandr Isayevich Solzhenitsyn]

[10] "Ward No. 6" is a short story by this author, who wrote about the destruction of the title grove in *The Cherry Orchard*. His other plays include *Uncle Vanya* and *The Seagull*.

ANSWER: Anton Chekhov [or Anton Pavlovich Chekhov]

18. For 10 points each, answer the following about the Pritzker Architecture Prize, the so-called Nobel Prize of architecture.
[10] This man, who won the first Pritzker Prize in 1979, was known for his almost fully-transparent Glass House. He also collaborated with Ludwig Mies van der Rohe on the Seagram Building.

ANSWER: Philip **Johnson** [or Philip Cortelyou **Johnson**]

[10] This Chinese-American winner of the 1983 Pritzker Prize designed the National Gallery of Art East Wing, as well as the Louvre Pyramid.

ANSWER: Ieoh Ming **Pei** [or **Bèi Yùmíng**]

[10] The 1998 Pritzker Prize was awarded to the Italian architect Renzo Piano, who designed a skyscraper known as the Shard in this European capital city. Most of this city's medieval architecture was destroyed in its Great Fire of 1666.

ANSWER: **London**

19. You have been visited by the skeleton of spooky ("**spooky**") classical music! Answer the following or you will never doot doot again, for 10 points each:

[10] You can thank Mr. Skeltal for the spooky sounds of rattling bones played by the xylophone in this French composer's *Danse macabre*.

ANSWER: Camille **Saint-Saëns** [or Charles-Camille **Saint-Saëns**]

[10] Be sure to drink lots of milk so your bones will be strong enough to survive the spooky "night music" found in this composer's *Concerto for Orchestra* and *Music for Strings, Percussion and Celesta*.

ANSWER: Béla **Bartók** [or Béla Viktor János **Bartók**]

[10] This keyboard instrument with namesake "pipes" plays J.S. Bach's *Tocatta and Fugue in D minor*, a piece so spooky and scary that it will send shivers down your spine.

ANSWER: **organ** [or **pipe organ**]

20. Right triangles are awesome because dropping an altitude from the right angle makes two similar right triangles. For 10 points each:

[10] Name this longest side of a right triangle, whose length can be calculated given the length of the other two legs according to the Pythagorean theorem.

ANSWER: **hypotenuse**

[10] This extension of the Pythagorean theorem can be used to find the length of a side given the other two sides and the angle between them. Unlike a similar law, it lacks an ambiguous case.

ANSWER: **law of cosines** [or **cosine formula**; or **cosine rule**; prompt on just "cosine"]

[10] The length of each side of a triangle is subtracted from this quantity, symbolized s , to calculate the area of any triangle in Heron's formula. This quantity is multiplied by the apothem to find the area of a regular polygon.

ANSWER: **semiperimeter** [prompt on descriptive answers describing **half the perimeter**]

21. After losing to Pat Brown in an 1962 gubernatorial election, this man told reporters that they "wouldn't have him to kick around anymore." For 10 points each:

[10] Name this politician who had previously lost the 1960 presidential election, in part due to his tired and worn appearance during televised debates.

ANSWER: Richard Milhous **Nixon** [prompt on "Tricky Dick"]

[10] In 1974 Nixon resigned from the presidency due to this scandal, which involved wiretapping the Democratic Party headquarters in a namesake hotel.

ANSWER: **Watergate** scandal [accept **Watergate break-in** or any other answer that mentions **Watergate**]

[10] Nixon denied any wrongdoing in a speech given to the press after Watergate, which included this five-word statement declaring his innocence.

ANSWER: **"I am not a crook"** [or **"I'm not a crook"**]