Tossups

1. The development of this school is recounted in the text *Records of the Transmission of the Lamp*. According to legend, the founder of this school agreed to teach his future successor after that successor cut off his left arm. The *Gateless Gate* and the *Blue Cliff Record* are two commonly-used instructional texts in this school, whose founding is attributed to the monk Bodhidharma. This tradition makes use of many paradoxical statements called *koan*s ("KO-ons"), famously exemplified by the question "What is the sound of one hand clapping?" For 10 points, identify this tradition within Mahayana Buddhism emphasizing the use of meditation to achieve enlightenment.
ANSWER: **Zen** Buddhism [or **Chan** Buddhism; anti-prompt (ask "can you be less specific?") on __Rinzai__ Zen or __Soto__ Zen]
<Religion>

2. A waterway with this color in its name was the subject of a 1931 "war" in which "Alfalfa Bill" Murray used martial law to defend a bridge. Eugenicist Madison Grant formed a conservationist group that successfully lobbied to create a national park with this color in its name. Before entering Lake Winnipeg, a river named for this color flows past Fargo and forms the borders of North Dakota and Minnesota. That river is called "of the North" to distinguish it from another river named for this color that flows through Louisiana and Texas. The Mesabi range in the Midwest is this color because of its massive iron deposits. For 10 points, what color appears in the name of Louisiana's capital?
ANSWER: **red** [or **Rouge**; accept **Red** River or Baton **Rouge** or **Red**wood National Park]
<Current Events/Geography/Other Academic/Pop Culture>

3. The Poisson ("pwa-SAWN") distribution is the limit of this distribution as *n* goes to infinity but the expected value remains the same. A Poisson distribution with a Gamma-distributed parameter is the "negative" form of this distribution. This [emphasize] *discrete* distribution is modeled by a Galton Board. For large values of *n*, this distribution can be approximated with a normal distribution. The values of the *n*th row of Pascal's triangle divided by 2 to the *n* create PMFs of this distribution. For 10 points, name this probability distribution that gives the probability of *k* successes given *n* trials with two possible outcomes, whose PMF contains namesake coefficients of the form "*n* choose *k*."
ANSWER: **binomial** distribution [accept negative **binomial** distribution until "Galton" is read]
<Other Science>

4. The fall of this civilization led to the rise of the Painted Grey Ware culture. This civilization had one of the earliest docks that allowed for simultaneous unloading in its city of Lothal. A seal from this civilization depicts a horned figure sitting between a tiger and a bull. The "Dancing Girl" statue was found during excavations of a city in this civilization, which was home to the earliest indoor plumbing system and to the Great Bath. This civilization's major cities included Harappa and Mohenjo-Daro. For 10 points, name this ancient civilization located on the banks of a namesake river in the Indian subcontinent.
ANSWER: **Indus** River Valley Civilization [accept **Harappa**n Civilization until "Harappa" is read]
<Other History>

5. A panopticon-esque former state penitentiary in this country is now a museum for an artist who spent most of her life here, and whose *Self-Portrait* shows her sitting in a blue chair in front of a white rocking horse. Though born in England, Leonora Carrington died in this country. Clare Boothe Luce commissioned an artist from this country to create a painting of a woman falling from a tall, red-roofed building surrounded by mist, *The Suicide of Dorothy Hale*. This country is the location of the Blue House, the birthplace of an artist who painted self-portraits "with Thorn Necklace and Hummingbird" and "with Monkey." For 10 points, name this home country of Frida Kahlo.
ANSWER: **Mexico**
<Painting/Sculpture>

6. An often-quoted line from this book describes "how a single candle can both defy and define the darkness." This book's narrator expresses wonder that she hadn't dropped her ideals "because they seem so absurd and impossible to carry out." The nickname "Hello" is used for Helmut Silberberg in this book, which also describes its narrator's distant relationship with her mother Edith. This book is entirely addressed to Kitty, and includes the author's growing friendship with Peter van Pels prior to her eventual arrest and death at Bergen-Belsen. For 10 points, name this book that charts its young author's concealment in Nazi-occupied Amsterdam.
ANSWER: *The **Diary of a Young Girl**** [or *Het **Achterhuis***; or descriptions like a **diary** or **writing**s by Anne **Frank**]
<European Literature>

7. One of these devices in parallel to an output signal acts as a simple low-pass filter. When one of these devices is linked in series with a resistor in a DC circuit, the current decays exponentially. Because their namesake quantity is proportional to surface area divided by separation, its equivalent value becomes higher when these devices are connected in parallel and lower when they are in sequence. The charge-storing ability of these devices can be increased by inserting a dielectric. For 10 points, name these circuit components with a namesake quantity measured in farads, usually made from a pair of conducting parallel plates.
ANSWER: **capacitor**s
<Physics>

8. Larry Diamond is best known for writing about this system, including a book titled for the "Spirit of" it. The concept of sortition inspired Robert Dahl to write about this system "and its critics," which he also studied at play in New Haven, Connecticut. A book titled after this system warns of the "soft despotism" that it can create and was inspired by a trip to inspect prisons with Gustave de Beaumont. That book about this form of government warns of the development of a "tyranny of the majority." For 10 points, name this form of government that Alexis de Tocqueville wrote about "in America."
ANSWER: **democracy** [accept *The Spirit of **Democracy***, ***Democracy** and its Critics*, **democratic** peace theory, or ***Democracy** in America*]
<Philosophy/Social Science>

9. A union leader in this industry and Richard Frankensteen were beaten up by Harry Bennett's security force during a strike. Governor Frank Murphy sent the National Guard to protect workers in this industry who were participating in a "sit-down." Workers in this industry were involved in the Battle of the Overpass outside the River Rouge Complex. That strike was led by Walter Reuther ("ROOTH-er"). A businessman in this industry introduced 5-dollar daily wages in response to discontent from workers with his improved assembly line process. For 10 points, name this industry where the UAW represents employees at companies like Ford and General Motors.
ANSWER: **auto**mobile industry [or descriptions like **car** manufacturing]
<American History>

10. In a novel by this author, the protagonist grows up in the HelthWyzer compound and encounters genetically engineered animals like rakunks and pigoons; that protagonist is later named Snowman. In another novel by this author, the narrator's evidence is transcribed by Professor Pieixoto ("pay-SHOH-too"). This author of *Oryx and Crake* wrote a novel in which Serena Joy is unaware of the illegal Scrabble games which the Commander plays against the narrator. This author created a class of women in the Republic of Gilead who wear distinctive long red dresses and white bonnets, in a work narrated by Offred. For 10 points, name this Canadian author of *The Handmaid's Tale*.
ANSWER: Margaret **Atwood**
<World/Other Literature>

11. In the "nested" form of this technique, a second run is performed on the product of an earlier run to increase specificity. This technique usually utilizes a Ready-To-Go bead or a master mix containing magnesium chloride and dNTPs. SYBR ("cyber") Green and other fluorescent probes are used for real-time analysis of this technique, a form of which is the most common method used to test for SARS-CoV-2. This technique relies on a heat-stable enzyme called Taq. After the denaturation stage of this technique, temperatures are lowered and primers anneal to the template before it elongates. For 10 points, name this technique used to mass-produce copies of a desired DNA sequence.
ANSWER: **PCR** [or **polymerase chain reaction**; accept **nested PCR** or **qPCR** or **quantitative PCR** or **real-time PCR** or **RT-PCR** or **reverse transcriptase PCR** or **RT-qPCR** or **reverse transcriptase quantitative PCR**]
<Biology>

12. In a 1962 film by a director originally from this country, guests at a formal dinner party realize they are inexplicably unable to leave the room in which the party occurred. The director of *The Exterminating Angel* was born in this country, and also directed a film in which a man bikes down a street wearing a nun's habit. A film created by artists from this country opens with a shot of an eye being sliced open with a razor. The experimental film *Un Chien Andalou* is named after this country's region of Andalusia, and was written and directed by two men from this country. For 10 points, what European country is home to Luis Buñuel and Salvador Dalí?
ANSWER: **Spain**
<Other Arts>

13. This ruler patronized the poet al-Sahili, who introduced the usage of burnt brick as an architect. A Hall of Audience was included in this ruler's capital of Niani ("nee-AH-nee"). This ruler was depicted holding a scepter with a fleur-de-lis in one section of the Catalan Atlas. He took power after his predecessor supposedly disappeared while trying to sail to the end of the Atlantic Ocean. Under this ruler, the Djinguereber ("jin-gah-ray-bair") Mosque and Sankore ("san-COR-ay") University were constructed. In order to reverse the inflationary effects of a visit, this ruler borrowed as much gold as possible from Cairo after returning from his *hajj* to Mecca. For 10 points, name this big-spending emperor of Mali.
ANSWER: Mansa **Musa** I [or **Musa** Keita I]
<World History>

14. A Japanese fairy tale describes how Urashima Taro rescued one of these animals that was actually Princess Otohime. A golden one of these animals was sent to receive a sword called "Heaven's Will" from Lê Lợi ("lay loi"). In Chinese mythology, a black one of these animals represents the North, and a hybrid of a dragon and this animal is often depicted as the base of decorative steles. In Hindu mythology, an avatar of Vishnu in the form of this animal supported Mount Mandara during the churning of the ocean of milk. For 10 points, name these reptiles who are often depicted in mythology supporting the Earth on the back of their shells.
ANSWER: **turtle**s [or **tortoise**s]
<Mythology>

15. In this novel, the main characters attend a carnival surrounded by dying roses in a lumberyard. A character in this novel yells "Seven-O!" while men try to burn him, while another likens the repression of painful memories to keeping his heart in a "tobacco tin." In this novel, a chokecherry-tree-shaped scar is inflicted on the protagonist by a white man known as Schoolteacher. In this novel, which is dedicated to "sixty million and more," Halle ("HAL-ee") goes mad before he can escape Sweet Home plantation and join his wife, who lives in a location described as "spiteful" and "full of a baby's venom" at 124 Bluestone Road. For 10 points, Sethe ("SETH-uh") is haunted by her dead daughter in what novel by Toni Morrison?
ANSWER: _**Beloved**_
<American Literature>

16. In October 2020, Americans Sandra Loli and Mikael Gidada returned from this country as part of a 1,000-person prisoner exchange. After being driven from power in this country, Ali Abdullah Saleh ("SAH-leh") supported a rebel group in it, which he subsequently denounced and was killed by in 2017. In 2019, Donald Trump vetoed a bill that would end US support for a military operation in the country. An ongoing war in this country broke out in 2015 when a Shia ("SHEE-uh") group called the Houthis ("HOO-thees") captured its capital, sparking a bombing campaign by Saudi Arabia. For 10 points, thousands of children have died from starvation in what war-torn country on the Arabian peninsula?
ANSWER: **Yemen** [or Al-Jumhuriyah al-**Yaman**iyah]
<Current Events/Geography/Other Academic/Pop Culture>

17. This ruler established the Assignation Bank, which created the first paper currency for its nation. This ruler encouraged instability in another country by backing its Targowica ("tar-go-VEET-sah") Confederation. This ruler standardized national law with the creation of the Nakaz ("nuh-KAHZ"). This ruler worked with the Hapsburgs and Prussians to orchestrate the first partition of Poland. A Cossack rebellion against this ruler was put down by Alexander Suvorov ("SOO-vuh-rov") and a man who supposedly created fake villages to impress this ruler. Pugachev's Rebellion targeted this woman, whose lovers included Grigory Orlov and Grigory Potemkin. For 10 points, name this longest serving Russian empress.
ANSWER: **Catherine the Great** [accept **Catherine II**; prompt on Catherine]
<European History>

18. *Author and type of poem required.* One of these poems states that rotting lilies smell much worse than weeds; that line was quoted in a different work by its author. Another of these poems makes a pun about deceit in love using the words "I lie with her and she with me." The dedicatee, or "only begetter of" these poems, is referred to as Mr. WH. A subversive one of these poems compares their mistress's hair to "black wires" and begins with the claim that "my mistress' eyes are nothing like the sun." One of these poems states that the addressee is "more lovely and more temperate" in response to the question "shall I compare thee to a summer's day?" For 10 points, name these poems written in a fourteen-line rhyming form by the author of plays like *Hamlet*.
ANSWER: **sonnet**s by William **Shakespeare** [accept **Shakespeare**an **sonnet**s; prompt on partial answers]
<British Literature>

19. Leonard Bernstein conducted the finale of a symphony by this composer at double the intended tempo, and that finale's ponderous and shrill nature implied forced rejoicing, according to Solomon Volkov's book *Testimony*. A march theme from another of this composer's symphonies quotes a song from Franz Lehár's "The Merry Widow." This composer's Fifth Symphony was dubbed a "creative response to justified criticism." Another symphony by this composer features a recurring, 22-bar snare drum ostinato, often called the "invasion" theme. For 10 points, name this Soviet composer of the "Leningrad" Symphony.
ANSWER: Dmitri **Shostakovich**
<Classical Music>

20. In this technique, a beta ratio of 20 corresponds to 95 percent-percent efficiency. A non-resin material used in one form of this technique can be graded according to its molecular weight cut-off. The undesirable "blinding" effects of a "cake" formed during this technique can be mitigated with the addition of cellulose and perlite. One form of this technique collects solid residues in a Hirsch funnel or Büchner ("b'b'YOOK-nur") funnel. In that form of this technique, water flows through an aspirator to create a vacuum in an attached flask. The most basic form of this technique relies on gravity to pull liquid through a semipermeable medium. For 10 points, name this technique used to separate solids from fluids.
ANSWER: **filtration** [accept **ultrafiltration** or **vacuum filtration** or **gravity filtration**; prompt on dialysis]
<Chemistry>

Bonuses

1. By opening a bag that contains most of the winds, a ship's crew prevents the protagonist from returning to this island. For 10 points each:
[10] Name this island that the goddess Athena reveals to the protagonist by removing the fog. Suitors such as Antinous ("an-tin-OH-us") inhabit this island and are delayed by a plot that involves unweaving a funeral shroud every night.
ANSWER: **Ithaca** [or **Ithaki**]
[10] This character spends the Ancient Greek epic poem that is named for him trying to return to Ithaca. This character then plots to kill all the suitors who are trying to seduce his wife, Penelope.
ANSWER: **Odysseus** [or **Ulysses**]
[10] This swineherd plays a crucial role in welcoming Odysseus and helping him to defeat the suitors. Uniquely, the narrator of the *Odyssey* addresses this character in the second person.
ANSWER: **Eumaeus** ("yoo-MAY-us")
<World/Other Literature>

2. In the number "Everything's Alright," this character is accused of wasting ointment that could be sold to help the poor. For 10 points each:
[10] Name this musical role, famously played by Yvonne Elliman, that sings the number "I don't know how to love him," about unrequited love for the main character.
ANSWER: **Mary Magdalene** [prompt on Mary]
[10] The role of Mary Magdalene appears in this 1970 rock opera about the interpersonal struggle between Judas Iscariot and the title Son of God.
ANSWER: ***Jesus Christ Superstar***
[10] This British composer collaborated with lyricist Tim Rice to release the concept album for *Jesus Christ Superstar*. He composed the musicals *Evita*, *Cats*, and *The Phantom of the Opera*.
ANSWER: Andrew **Lloyd Webber** [prompt on Webber or ALW]
<Other Arts>

3. This invention largely replaced the usage of scythes to harvest wheat in the Midwest. For 10 points each:
[10] Name this device created by Cyrus McCormick that used a horse-drawn frame with rapidly moving blades to efficiently cut through grain.
ANSWER: mechanical **reaper**
[10] McCormick relocated his business to this city in Illinois, where his great-nephew Robert would later edit its eponymous *Tribune* newspaper. McCormick's factory burned down during the "Great Fire" of this city in 1871.
ANSWER: **Chicago**, Illinois
[10] After the Paris Exposition, McCormick sued John Henry Manny for sole production rights of reapers. Among Manny's lawyers was this future Secretary of War under Abraham Lincoln.
ANSWER: Edwin McMasters **Stanton**
<American History>

4. Kinetic energy is proportional to the kinetic form of this quantity multiplied by Boltzmann's constant. For 10 points each:
[10] Name this quantity that can be measured on the Kelvin scale.
ANSWER: **temperature**
[10] This empirical equation states how reaction rates are dependent on temperature. A modification to this equation was created by Eyring ("EYE-ring") using transition state theory.
ANSWER: **Arrhenius** equation
[10] The Arrhenius ("uh-REE-nee-us") equation also relies on this constant, signified by capital A. This constant is based on how often reactant molecules collide.
ANSWER: **pre-exponential** factor [accept **frequency** factor]
<Chemistry>

5. This novel's postscript, titled "London 1999," reveals that its previous happy ending was invented, and that Robbie actually died of septicemia on the beaches of Dunkirk. For 10 points each:
[10] Name this novel in which Robbie Turner is imprisoned after a false accusation. Cecilia never forgives her sister, the narrator of this novel, for ending her relationship with Robbie.
ANSWER: *Atonement*
[10] Ian McEwan ("muck-YOO-in") set part of *Atonement* during this war, during which Robbie dies. *Catch-22* is set among an air squadron headquartered in the Mediterranean during this 1940s war.
ANSWER: **World War II** [or equivalents]
[10] McEwan is a close friend of Martin, an author with this surname, a frequent satirist of late capitalism who wrote *Money* and *Time's Arrow*. Martin's father Kingsley, who also had this surname, wrote *Lucky Jim* and *The Old Devils*.
ANSWER: **Amis** ("AY-miss") [accept Martin **Amis** or Kingsley **Amis**]
<British Literature>

6. This wartime report claimed that the five major problems countries faced on the path to progress were "want, disease, ignorance, squalor, and idleness." For 10 points each:
[10] Name this report that called for building a strong social welfare system. Findings from this report ultimately led to the creation of the National Health Service.
ANSWER: **Beveridge** Report
[10] The National Health Service was established in this country. The Beveridge Report was commissioned by a member of the War Cabinet formed by this country's Prime Minister Winston Churchill.
ANSWER: Great **Britain** [or **UK**; or **United Kingdom** of Great Britain and Northern Ireland; anti-prompt (ask "can you be less specific?") on England, Scotland, Wales, or Northern Ireland**]
[10] This Prime Minister's tenure saw the implementation of the NHS under Aneurin Bevan ("uh-NYE-run BEV-un"). This leader took power after an unexpected Labour landslide in the 1945 parliamentary elections against Winston Churchill.
ANSWER: Clement Richard **Attlee**
<European History>

7. Answer the following about traditional Japanese music, for 10 points each.
[10] Japanese music is often characterized by heavy usage of the "bright" *yo* scale, which is contrasted with the "darker" *in* ("een") scale. Because both of those scales are pentatonic, they contain this many notes.
ANSWER: **five**
[10] Traditionally, this Japanese end-blown flute could only be played by monks of the fuke-shu sect as part of *suizen* ("soo-ee-zen") "blowing" meditation. It is tuned to the *in* scale, but players often bend pitches by up to a whole tone.
ANSWER: **shakuhachi** ("sha-koo-HA-chee")
[10] The *shakuhachi* is traditionally made out of this material, which many other flutes around the world are made of, such as the Indian *bansuri* and the Chinese *dizi* ("DEE-dzuh") and *xiao* ("sh'yao").
ANSWER: **bamboo** [prompt on wood]
<Classical Music>

8. This civilization worshipped the creator deity Viracocha and sun deity Inti. For 10 points each:
[10] Name this South American civilization centered at Cuzco.
ANSWER: **Inca**n Empire [accept **Tawantinsuyu**]
[10] This son of Inti was the mythical founder of the Incan Empire. This man built Cuzco at the location where his golden staff sank into fertile soil.
ANSWER: **Manco Capac**
[10] Manco Capac and the other original Inca are said to have come from one of these locations called Paqariq Tampu ("PA-ka-reek TAHM-po"). In Mayan mythology, the entrance to Xibalba ("shee-BALL-buh") was said to be in one of these locations.
ANSWER: **cave**
<Mythology>

9. This disease manifests in a prodromal stage, a furious stage, and a paralytic stage. For 10 points each:
[10] Name this deadly disease transmitted by animal scratches or bites which can cause aggression, hydrophobia, and excessive salivation.
ANSWER: **rabies**
[10] Rabies causes the brain to undergo encephalitis ("en-seff-uh-LYE-tiss"), a form of this process. This immune response is partially mediated by cytokines like interleukin and TNF-alpha.
ANSWER: **inflammation** [prompt on swelling]
[10] This rabies treatment, in which patients are placed in a drug-induced coma to minimize brain damage, has been largely abandoned due to its high cost and low survival rate. It is named for the city where it was first used.
ANSWER: **Milwaukee** Protocol
<Biology>

10. Answer the following about virtual TV cast reunions that happened during quarantine, for 10 points each.
[10] Amy Poehler ("PO-lur"), Aubrey Plaza, and others recorded a special virtual episode of this show to raise money for Feeding America. This show centers on the title government department in Pawnee, Indiana.
ANSWER: *Parks and Recreation* [or *Parks and Rec*]
[10] The cast of *The Office* reunited on this YouTube series hosted by John Krasinski from his house. This show aims to help viewers' COVID-related anxiety by showcasing the title information.
ANSWER: *Some Good News*
[10] This other show's cast reunited to promote a made-for-TV movie subtitled "Lassie Come Home." In that movie, Santa Barbara Police Chief Carlton Lassiter observes paranormal events after suffering a stroke.
ANSWER: *Psych* [accept *Psych* 2: *Lassie Come Home*]
<Current Events/Geography/Other Academic/Pop Culture>

11. The authenticity of this object has been called into question because it predates the Trojan War by several hundred years. For 10 points each:
[10] Name this golden object found buried with a legendary king during an excavation of Mycenae ("my-SEE-nee").
ANSWER: **Mask of Agamemnon**
[10] This German archaeologist discovered the Mask of Agamemnon. This frequent collaborator of Arthur Evans also discovered Hisarlik ("HISS-ar-lik"), believed to be the city of Troy.
ANSWER: Heinrich **Schliemann** ("SHLEE-mahn")
[10] Arthur Evans discovered the palace of Knossos ("NAW-suss") on this largest island in Greece. Its inhabitants used the Linear A script and made up the Minoan civilization.
ANSWER: **Crete**
<Other History>

12. In this novel, the Solara family is a local gang that frames an innocent man for murder. For 10 points each:
[10] Name this novel in which Lenú competes to keep up with her friend, the child prodigy Lila, in school. In this novel, Lila is thrown through a window by her father, who is angry with her for taking the middle school exam.
ANSWER: *My Brilliant Friend*
[10] This author included *My Brilliant Friend* in her four-book series titled *Neapolitan Novels*. This Italian author's identity is unknown, and her pseudonym shares the first name of her protagonist, Elena.
ANSWER: Elena **Ferrante** ("feh-RAN-tay")
[10] Despite many attempts to discover her identity, Ferrante remains anonymous. A 2016 attempt to deduce Ferrante's identity analysed her detailed depiction of this Italian city, home to a famous Leaning Tower.
ANSWER: **Pisa**
<European Literature>

13. The intensity of several physical quantities is inversely proportional to the square of distance. For 10 points each:

[10] Isaac Newton modeled the "universal" form of this force with an inverse-square law that states that this force is equal to big-G times the product of two masses divided by the square of the distance between them.

ANSWER: Newton's law of universal **gravitation** [accept universal **gravity**]

[10] Inverse-square laws can be derived from variants of this physical law. This law's equivalent for gravity states that the total gravitational flux through a closed surface is proportional to the mass it contains.

ANSWER: **Gauss**'s law [or **Gauss**'s **flux** theorem; prompt on divergence theorem, Gauss's theorem, or Ostrogradsky's theorem]

[10] Applying Gauss's law to a field source with this 3-dimensional symmetry results in an inverse-square relation between the field's intensity and the distance from its source. Triple integrals over systems with this symmetry reduce to a single integral prefixed by a factor of 4 pi.

ANSWER: **spherical** symmetry [accept **sphere**s; prompt on continuous symmetry; do not accept or prompt on "circular symmetry"]

<Physics>

14. Many of the figures wear straw hats in Renoir's painting of a *Luncheon of* a group of people who partake in this activity, one of whom is modeled on the painter Gustave Caillebotte. For 10 points each:

[10] Name this activity, whose participants feature in several Impressionist paintings. In a painting titled for this sort of *Party*, a woman wears a blue dress with a red check pattern and holds a baby.

ANSWER: **boat**ing [or **boat**ers, or **boat**ing party; prompt on party]

[10] *The Boating Party* is by this female painter and close friend of Edgar Degas. Many of her works feature children, such as *The Child's Bath* and *Little Girl in a Blue Armchair*.

ANSWER: Mary **Cassatt**

[10] Cassatt's painting *In the Loge* is set at this type of location and depicts a woman looking through binocular-like glasses. Edouard Manet depicted many men wearing top hats standing in a lobby in his painting named for a *Masked Ball at* this type of place.

ANSWER: the **opera** [prompt on theater]

<Painting/Sculpture>

15. Eric Kandel studied *Aplysia californica* in part to study this psychologist's namesake type of learning. For 10 points each:

[10] Name this psychologist. His best known statement is often summarized by the phrase "Cells that fire together wire together."

ANSWER: Donald **Hebb** [accept Donald Olding **Hebb**]

[10] Hebb wrote a famous textbook about the "organization of" this concept. B. F. Skinner proposed a "radical" form of a school of thought named for this concept, which describes how people act and conduct themselves.

ANSWER: **behavior** [accept **Behaviorism** or Radical **Behaviorism**; accept *The Organization of **Behavior***]

[10] One of these apparatuses was named for Hebb and Kenneth Williams. B. F. Skinner modified one into a "water" form, and the "Kerplunk" experiment was carried out using one of these apparatuses.

ANSWER: **maze** [accept Hebb–Williams **maze**, water **maze**, or Skinner **maze**]

<Philosophy/Social Science>

16. A major collection of this author's works was published by John Woodbridge without this author's permission. For 10 points each:
[10] Name this author whose poems "The Four Monarchies" describe the fall of Assyria, Persia, Greece and Rome. Another poem by this author describes the title object as "ill-form'd offspring of my feeble brain."
ANSWER: Anne **Bradstreet**
[10] Bradstreet compared this person to "all the riches that the East doth hold" in a poem that begins "if ever two were one, then surely we."
ANSWER: her **husband** [accept **Simon** Bradstreet; prompt on Bradstreet; accept "To My Dear and Loving **Husband**"]
[10] The collection published without Bradstreet's permission described her in its title as the tenth one of these figures "lately sprung up in America." These figures, such as Clio and Calliope ("kal-ee-OH-pee"), are the ancient Greek personifications of the arts and literature.
ANSWER: the **Muses** [or **Mousai**; accept *The Tenth **Muse** Lately Sprung Up In America*]
<American Literature>

17. A tradition among this religious subgroup is to beat each other with scallions to symbolize the treatment they received while slaves in Egypt. For 10 points each:
[10] Name this Jewish group primarily descended from Jews expelled from Spain following the Alhambra decree. They are often contrasted with the Ashkenazi Jews of Europe.
ANSWER: **Sephardic** Jews [or **Sephardim**]
[10] Lamb is a traditional Sephardic Jewish dish for the *seder* ("SAY-dur") meal that begins this holiday.
ANSWER: **Passover** [or **Pesach**]
[10] Unlike Ashkenazi Jews, Sephardic Jews can eat rice and beans on Passover, only avoiding leavened foods. Leavened foods, which must be removed from the home for Passover, are referred to as this Hebrew term.
ANSWER: *chametz* ("ha-METS")
<Religion>

18. The supposed origin of an event named for this plant was that Creole speakers would have difficulty pronouncing its "R" sound. For 10 points each:
[10] Name this plant that names a massacre against Haitians living in the Dominican Republic in the 1930s.
ANSWER: **parsley** [or *perejil*]
[10] This longtime dictator of the Dominican Republic oversaw the Parsley massacre. This man's rule was opposed by the Mirabal Sisters, and he was assassinated in 1961.
ANSWER: Rafael **Trujillo** ("troo-HEE-yo")
[10] Trujillo attempted to assassinate Rómulo Betancourt, a president of this South American nation. A later leader of this nation, Hugo Chávez, attempted to use its oil reserves to reduce income inequality.
ANSWER: **Venezuela**
<World History>

19. Climate boundaries may be denoted by "lines" where these plants are no longer present. For 10 points each:
[10] Name these tall plants that grow in forests.
ANSWER: **tree**s
[10] Tree lines separate taiga regions from tundra regions, because most trees are unable to take root in this layer of soil. This layer of soil lies under an active layer that can be up to 4 meters thick.
ANSWER: **permafrost**
[10] Collapse-scar types of these regions are created when permafrost thaws. Tree lines outline these regions of the taiga due to their acidic soil, which results from the presence of *Sphagnum* species.
ANSWER: **bog**s [accept **peatland**s]
<Other Science>

20. Gaunilo of Marmoutiers responded to this argument with his "Lost Island" argument in which he argued for the existence of a perfect island. For 10 points each:
[10] Name this argument which claims that a being is better if it exists in both the mind and the world rather than just the mind. It was used by Anselm of Canterbury to argue for the existence of God.
ANSWER: **ontological** argument
[10] Alvin Plantinga put forth an ontological argument described by this adjective. This adjective applies to a form of "realism" put forth by David Lewis in which he argued that each possible world is inherently like ours.
ANSWER: **modal** [accept **modal** ontological argument or **modal** realism]
[10] Alvin Plantinga wrote about how a morally good God could have allowed this concept to exist in our universe. That debate comes as part of this concept's namesake "problem."
ANSWER: **evil**
<Philosophy/Social Science>