This round is sponsored by Greg Peterson

1. Supporters of this man like to chant "He's my rooster!" This man's teenage brother accidentally killed himself in a plot against a rival shoe store, and he rose to national prominence when he was photographed wearing a bloody shirt in a 1996 protest against the state oil company. Shortly after his first wife died in 2003 of lupus, this mayor of his nation's capital was (*) impeached over a scheme involving a hospital access road. As mayor, he formed a public/private partnership with telecom tycoon Carlos Slim. This native of Tepetitan staged a month-long sit-in in the capital following his defeat as the PRD candidate to Felipe Calderon in 2006. For 10 points, name this victor in the 2018 Mexican presidential election with a four-letter nickname.
ANSWER: Andrés Manuel **López Obrador** [accept **AMLO**; prompt on partial answers]
<Bentley, Current Events - World>

2. This city passed new Jim Crow laws after the Yale-educated lawyer George McMechen bought a house in a white neighborhood. An Immigration Museum in this city's Locust Point neighborhood celebrates its history of processing the second-most immigrants after Ellis Island. Shipbuilders at this city's bustling 19th century port constructed vessels such as the *Chasseur*, one of its namesake clipper ships. This birth city of (*) Babe Ruth smelled like "a billion polecats" in the summer according to its "sage," H. L. Mencken. The family of Major George Armistead kept a large flag that was damaged in this city during the Defense of Fort McHenry. Francis Scott Key wrote "The Star-Spangled Banner" in, for 10 points, what most populous city in Maryland?
ANSWER: **Baltimore**
<Bentley, History - American>

3. This play's author once sued the group De Haarlemse Toneelschuur since he refused to let all-female casts stage it, claiming "women don't have prostates." Susan Sontag put on a candlelit staging of this play during the siege of Sarajevo. After a character dances awkwardly in this play, it is suggested that "The Net," "The Hard Stool," and "The Scapegoat's Agony" should be names for the dance. When a character in this play is ordered (*) "Think!", he rambles about a "personal God quaquaquaqua." A man leads his slave using a rope leash in the first act of this play, and before they depart in its second act, it is revealed that one is deaf and the other blind. Pozzo and Lucky meet Vladimir and Estragon in, for 10 points, what play by Samuel Beckett?
ANSWER: *Waiting for Godot* [or *En attendant Godot*]
<Alston, Literature - European>

4. The "white" section of one of these texts is divided into forty concise lectures on rites and is contrasted with a "black" section which is interspersed with works of exegesis ("ex-uh-JEE-sis"). Another of these texts is the first to describe a coming-of-age ceremony in which a boy is invested with a sacred thread by a teacher to become "twice-born." These are the oldest *sruti* ("SHROO-tee") texts, meaning they were directly revealed to (*) *rishi* sages, and describe several deities consuming the intoxicating ritual drink *soma*. Prayers to be recited before *yajna* rituals are compiled in the "Yajur" one of these texts, while spells and healing rituals are compiled in the "Atharva" one. For 10 points, name these four Sanskrit scriptures, the longest of which is the Rig.

ANSWER: The **Vedas** [accept **Vedic** hymns; accept Yajur **Veda** or Atharva **Veda** or Rig **Veda**] (The first clue is about the "white" and "black" Yajur Veda.)
<Alston, RMP - Other Religion>

5. Cycloheximide chase experiments are used to measure this quantity for proteins in cells. Plotting the log of this quantity against atomic number over the square root of energy gives a straight line with positive slope. In pharmacokinetics, drugs are typically deuterated or PEGylated to increase the terminal form of this quantity, and therefore, their bioavailability in the body. This quantity decreases over the course of a (*) zeroth-order reaction, but stays constant if the order is one. The product of this quantity and a rate constant symbolized lambda equals the natural log of two. For bismuth-209, this quantity is thought to be over a billion times the age of the universe. For 10 points, name this quantity, the time required for 50% of a radioisotope to decay.

ANSWER: **half-life** [prompt on lifetime]
<Silverman, Science - Chemistry>

6. Christopher Skaife has written a memoir of his career working in this location. Talbot Edwards, who worked at this location, was knocked unconscious by a man who used a fake marriage proposal to try to steal loot from here. From the 13th to 19th centuries, this structure housed exotic animals in the Royal Menagerie. Thomas Blood was pardoned and given land in Ireland following a failed attempt to (*) steal from this location. The youths Richard of Shrewsbury and Edward V are commonly named for this structure, where they were held prisoner before their likely murder by Richard III. In the 19th century, a legend developed that this structure would fall if the ravens ever left it. For 10 points, name this castle in the capital of the UK.

ANSWER: **Tower of London** [prompt on the Tower; prompt on London]
<Bentley, History - European>

7. A longtime art professor in this state produced paintings of cupcakes and gumball machines, is part of a school of abstract "figurative" painting from here, and is named Wayne Thiebaud ("TEE-boh"). In 2018, a painting made in this state of the artist's lover Peter Schlesinger became the most valuable sale of a painting by a living artist. After that artist left England to settle in this state, he painted *Pool with Two Figures* and *A (*) Bigger Splash*. A beige-colored courtyard in this state is nearby a villa full of classical art to an art "center" with white concrete buildings designed by Richard Meier. Museums in this state include The Broad and one owned by the J. Paul Getty Trust. For 10 points, name this home state of the Bay Area Figurative Movement.

ANSWER: **California** (*A Bigger Splash* is by David Hockney, who lives in California.)
<Bentley, Fine Arts - Painting>

8. Hugo Gylden discovered an object exhibiting this motion after he examined the proper motions of several stars. In Lin and Shu's density wave theory, structures undergo this motion in a differential fashion. Discrepancies in experimental measurements of this kind of motion and theoretical plots of galaxies undergoing this motion led to the proposal of dark matter. An increase in the magnitude of this motion in some stars is called a **(*)** glitch. Jocelyn Bell and Antony Hewish discovered a type of star that undergoes this kind of motion at a rapid rate, causing them to emit beams of EM radiation in a periodic fashion. For 10 points, name this kind of motion undergone by pulsars, in which an object moves around an axis.
ANSWER: **rotation** [accept **revolution**; prompt on <u>circular</u> motion]
<Jose, Science - Astronomy>

9. In a short story by this author, an old woman says "Five pennies is a nickel" to encourage a hospital attendant to give her more money so she can buy a paper windmill. In another story by this author, an uncle wakes his niece at 6:30 AM by throwing firecrackers into her room after hearing she called him a fool for wearing a pink kimono. The narrator of that story by this author is falsely accused of wanting **(*)** Papa-Daddy to cut off his beard. This author wrote stories about Phoenix Jackson, an old woman who walks to Natchez to retrieve throat medicine for her grandson, and a woman whose family is turned against her by her sister Stella-Rondo. For 10 points, name this Mississippi-born author of "A Worn Path" and "Why I Live at the P.O."
ANSWER: Eudora **Welty** [or Eudora Alice **Welty**]
<Guedes, Literature - American>

10. A machine named for these animals allowed for variable speeds in its carriage, rollers and spindles and was invented by Samuel Crompton for textile factories. These animals appear in the name of the film production company that made *Malcolm X* and *Do the Right Thing*. A "train" named for 20 of these animals was used to transport borax out of Death Valley before the coming of the railroad. A saying about these animals is frequently misattributed to Special Field Order No. 15 that William T. **(*)** Sherman issued concerning lands in South Carolina, Georgia and Florida. These animals are more common than a hinny, which, like them, are sterile. For 10 points, name these animals that were mythically promised to freed slaves alongside a farm of 40 acres.
ANSWER: **mule**s [accept spinning **mule**; or 40 Acres and a **Mule**]
<Bentley, Other - Other Academic and General Knowledge>

11. The soloist in Pierre Boulez's …*explosante-fixe*… ("ex-ploh-ZAHNT feeks") plays an electronically modified "MIDI" version of this instrument. A tone poem begins with this instrument playing a descent, then ascent, then descent again, spanning the tritone from G-sharp to C. Major pieces in this instrument's repertoire include Gabriel Fauré's *Fantaisie* ("fan-tye-ZEE"), Poulenc's sonata FP 164, Olivier Messiaen's ("meh-see-AN'Z") *Le Merle Noir* ("luh MAIRL nwahr"), and **(*)** Claude Debussy's *Syrinx*. Jean-Pierre Rampal ("rom-PAHL") often played a gold one of these instruments, which plays a chromatic solo at the beginning of Debussy's *Prelude to the Afternoon of a Faun*. This is the highest-pitched member of a standard wind quintet. For 10 points, name this reedless woodwind instrument whose players often double on the piccolo.
ANSWER: **flute** [accept transverse **flute** or concert **flute**]
<Kothari, Fine Arts - Music>

12. A massive bridge over this river's Iron Gates gorge was built in 105 AD by Apollodorus of Damascus. After being displaced by the Huns, the Goths successfully petitioned Valens for permission to cross this river. A fortress on this river was the target of a failed 1396 crusade led by the future Holy Roman Emperor Sigismund that ended at the Battle of Nicopolis. This river flows through the city of (*) Novi Sad in the autonomous region of Vojvodina, which changed hands in the Treaty of Karlowitz. The historical regions of Wallachia and Dacia were both north of this river, which formed the northern frontier for much of the Eastern Roman Empire. For 10 points, name this river that flows eastward through Central Europe into the Black Sea.
ANSWER: **Danube** River [or **Donau**]
<Jose, History - Cross, Historiography, and Miscellaneous>

13. In this novel, a photograph of the protagonist appears in a student newspaper with the caption "Who's the Dunce Now?" The protagonist of this novel contemplates the possibility that his daughter and her friend Helen are lovers. Those two women run a farm that is also inhabited by the abandoned dog Katy and the co-proprietor Petrus. This novel's protagonist is in charge of helping put dogs to sleep in the (*) animal clinic of Bev Shaw, and he is working on an opera about Lord Byron's lover. The main character of this novel goes to live with his daughter Lucy after he has an affair with his student, Melanie Isaacs. A professor who resigns his post named David Lurie is depicted in, for 10 points, what novel by J.M. Coetzee?
ANSWER: ***Disgrace***
<Mao, Literature - World and Miscellaneous>

14. In the *Aeneid*, Salius complains about the outcome of one of these events after Nisus, who had an unfortunate encounter with the blood of sacrificed steers, chose to help his lover Euryalus ("yur-ee-AL-us"). In the *Iliad*, a silver mixing bowl is given as a reward during one of these events in which Athena helps Odysseus best Ajax the Lesser. Male participants in a series of these events were (*) killed if they lost to a character who had earlier received the pelt of the Calydonian boar from Meleager ("meh-lee-AY-ger"). Aphrodite gave three golden apples to Hippomenes ("hip-POM-en-eez") to help him win the hand of Atalanta by beating her in one of these contests. For 10 points, identify these athletic contests, another type of which commemorates Pheidippides' ("fee-DIP-ih-deez") feat after Marathon.
ANSWER: **race**s [accept **footraces** or answers that indicate **running** contests; prompt on athletic contest or funeral games; do not accept or prompt on "chariot races"] (At the funeral games of Anchises, Nisus is winning the race until he slips in blood, after which he trips Salius, the second-place runner, so that Euryalus can take the title.)
<Alston, RMP - Greco-Roman Mythology>

15. This physicist is the first namesake of a method of selecting allowed states by requiring the line integral of position with respect to momentum to be an integer multiple of Planck's constant. A fundamental quantity named for this physicist equals the charge of the electron times h-bar divided by twice the mass of the electron. He debated Einstein at the Fifth Solvay Conference, and co-names an early quantization rule with (*) Arnold Sommerfeld. The magnetic moment of the electron can be written in terms of his namesake magneton. He developed a model which accounted for the spectral lines of hydrogen but was unable to describe multi-electron atoms. For 10 points, name this Danish physicist who proposed that electrons orbit the nucleus in circular paths.
ANSWER: Niels **Bohr** [or Niels Henrik David **Bohr**]
<Rosenberg, Science - Physics>

16. For a *Life* magazine profile, photographer Gordon Parks focused on the hands of a man in this profession whom he frequently took pictures of in Miami. That same person in this profession was captured by Bob Thomas with tape and a padlock over his mouth. Chris Farina is best known for his photos of people in this profession. A Neil Leifer photograph taken in Lewiston, Maine shows one man in this profession saying (*) "get up" to a man below him. Ashcan school artist George Bellows painted people with this job in *Stag at Sharkey's* and *Both Members of this Club*. A 1938 New York Times photo shows a black man with this job standing over Max Schmeling. For 10 points, give this profession of the title subjects of *Muhammad Ali and Sonny Liston*.
ANSWER: **boxer**s [accept answers that refer to **boxing**; prompt on athletes or answers that refer to sports; prompt on prize fighters; do not accept or prompt on "martial arts" or "mixed martial arts" or "MMA"]
<Bentley, Fine Arts - Photography>

17. The speaker of a poem in this collection asks "What are those blue remembered hills, / What spires, what farms are those?" before calling them "the land of lost content." Its first poem describes how the "beacon burns" on Clee hill, noting "fifty years to-night / that God saved the queen." A speaker answers "I cheer a dead man's sweetheart, / Never ask me whose" in a poem from this collection in which a dead man asks "Is My Team (*) Ploughing?" Another of its poems is addressed to a "townsman of a stiller town," who is told "early though the laurel grows / It withers quicker than the rose." A "smart lad" who slipped "betimes away" is the subject of "To an Athlete Dying Young," a poem from, for 10 points, what collection by A. E. Housman?
ANSWER: *A **Shropshire Lad***
<Jose, Literature - British>

18. This country's troops were trained in guerilla resistance tactics by mercenary Rolf Steiner. After this non-Arab country lost a war, the (emphasize) *victorious* country's prime minister gave a speech in which he proclaimed "no victor, no vanquished." Several campaigns against this country were led by "Black Scorpion" Benjamin Adekunle ("ah-deh-KOON-lay") during a war in which its defeated soldiers finally surrendered to Colonel (*) Olusegun Obasanjo ("oh-LOO-sheh-goon owe-buh-SAN-joe"). This country with capital Enugu was led throughout its entire existence by Odumegwu Ojukwu ("oh-doo-MEG-woo oh-JOOK-woo"). It was formed in 1967, in large part due to the ethnic resentment of the Igbo ("EE-boh") people, and lost its independence three years later. For 10 points, name this no-longer-existing country whose secession triggered the Nigerian Civil War.
ANSWER: Republic of **Biafra**
<Alston, History - World>

19. A C3-phosphorylated derivative of this compound interconverts with DHAP in an alternative to the malate-aspartate shuttle. Gel loading dye contains this compound to prevent samples from floating out of their wells. Protein kinase C signaling is regulated through a di·acylated derivative of this compound formed by hydrolyzing PIP2 into IP3. Enzymes are stored in high percentage solutions of this (*) viscous liquid, which is mixed with bacterial cultures to cryoprotect them at -80°C. In Archaea, this molecule unusually forms ether, not ester, linkages using its three hydroxyl groups. This molecule separates the hydrophobic fatty acid tails and the polar head group of a phospholipid. For 10 points, name this compound, the carbon backbone for fats.
ANSWER: **glycerol** [or **glycerine**; do not accept or prompt on "glyceride" or "triglyceride"]
<Silverman, Science - Biology>

20. A 1983 book about this place discusses its custom of elopement called *avaga*, and is dedicated to Karl Popper since that book claims that an earlier work discussing this location is "unfalsifiable." Another book about this place claims this place is inhabited by *fita-fita* guardsmen. Two residents of this place named Fafoa ("fah-foh-uh") and Fa'apua'a Fa'amu ("fah-ah-poo-ah fa-ah-mah") committed a "fateful hoaxing" on an anthropologist studying this place according to the controversial Derek (*) Freeman. A 1928 work claims that this place is inhabited by people who practiced the *taupou* ("TAO-poh") system, and who have fewer neuroses due to the way its adolescent girls were exposed to sex. For 10 points, name this Polynesian location mentioned in the title of a treatise by Margaret Mead.
ANSWER: **Samoa** [or The **Samoa**n Islands; accept ***Coming of Age in Samoa***]
<Jose, Social Science - Anthropology>

21. According to legend, a 15-year-old received this kingdom's throne after his mother sent a raven with a ring in its beak to find him. That humanist ruler of this kingdom assembled thousands of Greek codices in Europe's second-largest library after the Vatican Library, and created a standing force of mercenaries called the Black Army. For four centuries, this kingdom was ruled in a personal union with (*) Croatia until a decisive defeat at which its forces led by Pal Tomori were crushed, and its teenage King Louis II drowned in his armor. This kingdom, once ruled by Matthias Corvinus, was divided by the Hapsburgs and Ottomans after its crushing defeat at Mohacs ("MO-hach"). For 10 points, name this kingdom of the Magyar ("MOJ-yer") people governed from Buda and Pest.
ANSWER: Kingdom of **Hungary** [accept Regnum **Hungariae** or **Ungern**; accept **Magyar** Királyság before "Magyar"]
<Alston, History - European>

1. Evidentialism, a view espoused by David Hume, suggests that one can only engage in this action if there is a sufficient basis for it. For 10 points each:
[10] Name this action whose "ethics" are considered in an essay by W. K. Clifford. Another philosopher concluded that one can engage in this action if an option is "forced," "momentous," and "live."
ANSWER: **belief** [or **believing**; accept The **Ethics of Belief** or The **Will to Believe**]
[10] This philosopher responded to W. K. Clifford's "The Ethics of Belief" in his "The Will to Believe." He also wrote the book *Pragmatism*.
ANSWER: William **James**
[10] This argument, which was first introduced in a section of the book *Pensees* is often said to be anti-evidentialist. This argument considers the benefits of a belief whose ultimate rewards are infinite.
ANSWER: **Pascal's Wager** [accept the **wager** of Blaise **Pascal** or similar wordings]
<Jose, RMP - Philosophy>

2. A work of this type titled *After the Hunt* by William Michael Harnett was used by bartenders to check a patron's sobriety. For 10 points each:
[10] Give this term for paintings which, as their French name suggests, aim to "fool the eye" into thinking that the objects depicted are real.
ANSWER: **trompe l'oeil** ("tromp loyl")
[10] *Trompe l'oeil* paintings make use of the "linear" form of this technique, giving images on a flat surface the appearance of having three dimensions. Paintings that use it have vanishing points.
ANSWER: linear **perspective**
[10] This man's student Vincenzo Scamozzi ("vin-CHEN-zoh ska-MOT-zee") designed the *trompe-l'oeil* stage scenery for his final commission, the Teatro Olimpico. *Trompe l'oeil* murals also decorate his most famous design, which is on a hill outside Piacenza.
ANSWER: Andrea **Palladio**
<Bentley, Fine Arts - Painting>

3. Apical constriction of bottle cells forms this structure during gastrulation. For 10 points each:
[10] Name this opening to the archenteron. Whether it forms the mouth or anus determines if an organism is a protostome or deuterostome.
ANSWER: **blastopore**
[10] Developmental stages such as gastrulation are commonly studied in a model organism from this phylum. Sea urchins and starfish are members of this phylum who are oddly bilaterally symmetric.
ANSWER: **echinoderm**s [or **echinodermata**]
[10] This process of early cell division in the embryo may be radial or spiral depending on if the organism is a protostome or deuterostome. Depending on the organism, cell fates may be determined during this process which forms the blastula.
ANSWER: **cleavage**
<Silverman, Science - Biology>

4. Until recently, drinking this beverage often had lower class connotations because only farmers could regularly consume it before it spoiled. For 10 points each:
[10] Name this beverage. Adulterated "swill" versions of this drink killed thousands of children in New York in the 1850s.
ANSWER: cow's **milk**
[10] Milkmaids tended to not contract this disease because they had been exposed to a less deadly variant in cows. Edward Jenner developed a vaccine for this disease.
ANSWER: **smallpox**
[10] This city was the first in the United States to require that milk be pasteurized. Around the same time, Isham Randolph organized an effort to reverse its namesake river to clean up its drinking water supply.
ANSWER: **Chicago**
<Bentley, History - Cross, Historiography, and Miscellaneous>

5. Answer the following about British novels that voters of an AbeBooks survey claimed were the funniest ever written, for 10 points each.
[10] Number 4 on the list was this writer's novel about a journey from Kingston to Oxford via the title vehicle. In that novel, this writer created a humorous dog named Montmorency.
ANSWER: Jerome Klapka **Jerome**
[10] At number 3 is this author's *The Hitchhiker's Guide to the Galaxy*. His other creations include Dirk Gently, a detective who runs a "holistic detective agency."
ANSWER: Douglas **Adams**
[10] Topping the list is a novel titled for this valet, who in that novel solves many problems such as ensuring that Brinkley Court's chef Anatole does not resign his position. He and his master first appear in the story "Extricating Young Gussie."
ANSWER: **Jeeves** [or **Reginald Jeeves**; accept either underlined portion]
<Bentley, Literature - British>

6. The Harkin-Engel Protocol aimed to reduce the use of child labor in making this product. For 10 points each:
[10] Name this foodstuff whose production was dominated by Quakers such as Joseph Storrs Fry in the 19th century. A company town in central Pennsylvania is home to a theme park celebrating foods made from this ingredient first cultivated by the Olmecs.
ANSWER: **chocolate** [or **cocoa**; or **cacao**; accept **chocolate** bars and other food derived from chocolate]
[10] Along with theobromine, chocolate also contains this stimulant alkaloid found in coffee and tea.
ANSWER: **caffeine**
[10] Unsweetened cocoa is often included alongside chilis, annatto, and spices in these thick, complex sauces from traditional Mexican cuisine. San Pedro Atocpan is famous for producing these sauces.
ANSWER: **mole**s (MOHL-ay) [or **mole** poblano]
<Kothari, Other - Other Academic and General Knowledge>

7. This character's farewell dinner in New York is described as "the tribal rally around a kinswoman about to be eliminated from the tribe." For 10 points each:
[10] Name this character, a countess. The protagonist decides not to visit this character's apartment in Paris at the novel's end, declaring, "It's more real to me here than if I went up."
ANSWER: Countess Ellen **Olenska** [or **Ellen** Olenska]
[10] Ellen Olenska is a character in this author's *The Age of Innocence*. She also wrote *Ethan Frome*.
ANSWER: Edith **Wharton** [or Edith Newbold **Jones**]
[10] *The Age of Innocence* won the 1921 Pulitzer Prize for Literature after the award was controversially stripped from this novel, which depicts Carol briefly working as a clerk in Washington, D.C. after leaving her husband behind in Gopher Prairie.
ANSWER: *Main Street* [by Sinclair Lewis]
<Bentley, Literature - American>

8. One category of these systems was first proposed by E.F. Codd in 1970. For 10 points each:
[10] Name these storage systems. Programs such as Microsoft Access help manage them.
ANSWER: **database**s
[10] Business databases are often organized into one of these systems to allow for business queries to be generated using either OLTP or OLAP processing. In these systems, data is easily manipulated, much like how goods can be moved by things like a forklift in the physical buildings that provide these systems their name.
ANSWER: data **warehouse**s [accept data **mart**]
[10] This language is used for managing a relational database. Developed by Donald Chamberlin and Ray Boyce, it retrieves data using SELECT statements and filters it with WHERE clauses.
ANSWER: **SQL** ("sequel" or "S-Q-L") [or **Structured Query Language**]
<Rosenberg, Science - Engineering and Miscellaneous>

9. This god is typically depicted wearing a cape called the *chlamys*, which may explain why ancient Greek couriers also wore it. For 10 points each:
[10] Name this Greek god, a messenger and trickster who was also often shown wearing a winged hat and sandals.
ANSWER: **Hermes** [or **Mercury**]
[10] Hermes' other possessions include this herald's staff entwined by two snakes, which became a symbol of commerce and later developed into the astrological sign for Mercury.
ANSWER: **caduceus** (kah-DOO-see-us or kah-DOO-shuss) [or **kerykeion**]
[10] This son of Hermes was the charioteer of King Oenomaus (ee-noh-may-us). At the request of Pelops, who wanted to marry Oenomaus's daughter, he replaced the king's chariot's linchpins with wax.
ANSWER: **Myrtilus**
<Jose, RMP - Greco-Roman Mythology>

10. For much of the 20th century, this country claimed it was practicing a form of "separate development". For 10 points each:
[10] Name this country which implemented the Pass Laws Act in 1952 to enforce restrictions on internal migration.
ANSWER: **South Africa** [or Republic of **South Africa**]
[10] In 1955, the African National Congress and its allies drafted this document that claimed "The People Shall Govern!" and "All National Groups Shall Have Equal Rights!"
ANSWER: **Freedom Charter**
[10] The first post-apartheid Constitution of South Africa was promulgated under this president who spent much of 27 years in prison at Robben Island.
ANSWER: Nelson **Mandela** [or Nelson Rolihlahla **Mandela**]
<Bentley, History - World>

11. These entities propagate via adiabatic compression and decompression. For 10 points each:
[10] Name these longitudinal waves, which in air propagate at about roughly 343 meters per second.
ANSWER: **sound wave**s [accept **acoustic wave**s]
[10] In a liquid, the speed of sound is equal to the square root of this quantity divided by the density.
ANSWER: **bulk modulus**
[10] If two sounds with similar frequencies are played, the frequency of the beat heard as a result of their interference is this function of the frequencies of the initial sounds.
ANSWER: **difference** [accept answers involving **subtraction**]
<Wang, Science - Physics>

12. The tonality of the music for the scene set in this location is built around a dissonant diminished seventh chord, which the composer also used in his opera *Euryanthe*. For 10 points each:
[10] Name this operatic location where a man has a vision of his beloved Agathe **("AH-gah-tuh")** drowning. The scene set here features three upper voices repeating the eery phrase "Uhui! Uhui!" **("oo-HWEE oo-HWEE")**
ANSWER: The **Wolf's Glen** [accept **Wolfsschlucht** **("VOLFS-shlookt")**; prompt on forest or magic forest or **wolf's forest**; do NOT reveal this answer otherwise, but prompt on answers indicating the forest from *Der Freischütz*]
[10] The Wolf's Glen scene occurs in this Carl Maria von Weber **("VAY-bur")** opera, in which Kaspar goes there and summons the devil Samiel **("zah-MEEL")**.
ANSWER: *Der **Freischütz*** **("dur FRY-shuetz")** [accept *The **Freeshooter*** or *The **Marksman***]
[10] In *Der Freischütz*, the role of Max is sung by this intermediate male vocal range. José Carreras, Luciano Pavarotti, and Plácido Domingo formed a group of three singers in this range.
ANSWER: **tenor** [accept Three **Tenors**]
<Suh, Fine Arts - Opera>

13. One of this author's characters, Don Fabrizio, decides to "go on living the life of the spirit" and turns his attention to tracking comets instead of serving a king named Francis. For 10 points each:
[10] Name this 20th-century author who described the turbulent time period of the *Risorgimento* in his novel *The Leopard*.
ANSWER: Giuseppe Tomasi di **Lampedusa**
[10] *The Leopard* won a posthumous Strega Prize, which is awarded to the best work of fiction written in this language. It was also given to Paolo Giordano's novel *The Solitude of Prime Numbers*.
ANSWER: **Italian** [accept **Italiano**]
[10] In *The Leopard*, this member of the Falconieri family marries Angelica Sedara, embracing modern Italy. He shares his name with Clorinda's lover in Torquato Tasso's *Jerusalem Delivered*.
ANSWER: **Tancredi** Falconeri [accept **Tancred**]
<Bentley, Literature - European>

14. The temporary peace achieved under this man's leadership did not last under the rule of his brother Opechancanough (oh-pech-uh n-KAH-noh), who committed the Indian Massacre of 1622. For 10 points each:
[10] Name this Native American *weroance,* or chief, whose daughter possibly intervened at the last minute to save an Englishman from execution.
ANSWER: **Powhatan** [or **Wahunsenacawh**; or **Powatan**; or **Pohetan**; or **Poughwaton**; or **Wahunsenasawk**; or **Wahunsenacock**; or **Wahunsenakah**; accept **Powhatan** Confederacy; prompt on Mamanatowick]
[10] This first permanent English settlement in the Americas experienced hardships like conflict with the Powhatans and the so-called "Starving Time," but its fortunes turned with the introduction of tobacco by John Rolfe.
ANSWER: **Jamestown** [or **Jamestown** Colony; prompt on Colony of Virginia]
[10] This harsh governor of Virginia fought the First Anglo-Powhatan War and names a state whose border is defined by the Twelve-Mile Circle.
ANSWER: Thomas **West**, 3rd Baron **De La Warr** [accept either underlined answer; accept **Delaware**]
<Suh, History - American>

15. A classic Edward Evans-Pritchard study examines witchcraft, oracles, and this practice among the Azande. For 10 points each:
[10] Give this supernatural practice whose "black" form is used for selfish purposes by sorcerers.
ANSWER: **magic** [accept black **magic**]
[10] African black magic is often referred to by this term, which derives from a repetitive French word for "plaything." In Nigeria, this term is contrasted with voodoo, which refers to positive or good magic.
ANSWER: **juju** [accept **joujou**]
[10] In parts of East Africa, people with this physical trait are thought to have magic powers. Consequently, people with this trait are often killed in countries like Tanzania and Malawi for their body parts.
ANSWER: **albinism** [accept **albino** or **PWA**; prompt on answers that refer to white skin; do not accept or prompt on just "white"]
<Alston, RMP - Other Religion>

16. Chemical reactions are often run under this condition if the solvent is volatile but the reaction is rate-limited. For 10 points each:
[10] Name this setup in which a liquid is continuously vaporized, then re-condensed by an overhead cold finger and recycled. It's a defining feature of industrial continuous distillation.
ANSWER: **reflux** [or word forms]
[10] Refluxing is often necessary to separate components that have extremely close values for this value, the temperature at which they vaporize.
ANSWER: **boiling point** [or **condensation point**]
[10] For a batch distillation in the lab, the reaction is often set to boil by placing it in a round-bottom flask nested in a sand bath on one of these flat-top heating elements. They often double as magnetic stirrers.
ANSWER: **hot plate**s
<Silverman, Science - Chemistry>

17. A player of this instrument collaborated with Ravi Shankar on the album *East Meets West*. For 10 points each:
[10] Name this stringed instrument whose Jewish virtuosos included Bronislaw Huberman **("HOO-bare-mahn")** and Yehudi Menuhin **("ye-HOO-dee MEN-oo-heen")**. It is the most common instrument in a standard orchestra.
ANSWER: **violin**
[10] A teenaged Menuhin recorded this composer's B minor violin concerto. His E minor cello concerto became wildly popular after it was recorded by Jacqueline du Pre.
ANSWER: Edward **Elgar** [accept Sir Edward William **Elgar**, 1st Baronet]
[10] This violinist and current owner of Menuhin's Soil **("swal")** Stradivarius plays seated due to his poliomyelitis. His playing was recorded for the movie *Schindler's List*.
ANSWER: Itzhak **Perlman**
<Smith, Fine Arts - Music>

18. One poem in this form describes an "ancient pond" into which a frog jumps. For 10 points each:
[10] Name this Japanese genre of three-line poetry. Many poems in this genre were written by Matsuo Basho.
ANSWER: **haiku** [accept **hokku**]
[10] Basho described traveling with his friend Sora in a *haibun* prose and poetry narrative describing a journey to this location on Honshu. Basho supposedly wrote a haiku using only two different words about the islands of Matsushima in his book about this place.
ANSWER: the **Deep North** [accept **Oku** or **Interior**]
[10] A *haiku* in *The Narrow Road to the Deep North* juxtaposes Sado Island with this place, which is called "Silver River." The *Manyoshu* describes how this place separates a pair of lovers in the *Tanabata* legend.
ANSWER: the **Milky Way** galaxy [prompt on galaxy]
<Jose, Literature - World and Miscellaneous>

19. In 1903, a merchant named Italo Marchioni patented the waffle ice cream cone in this city. For 10 points each:
[10] Name this city in New Jersey, heavily flooded during Hurricane Sandy. Frank Sinatra was born in this city.
ANSWER: **Hoboken**
[10] This section of Hoboken, once home to a Lipton Tea factory, was devastated by a 1900 fire and further declined due to Interstate highways. One of these places in Philadelphia named Penn's Landing was also cut off from the rest of the city by a highway.
ANSWER: **waterfront** [or **harbor**; or **dock**s; or **pier**s; or **port**]
[10] The world's first steam-powered ferry carried passengers between Hoboken and this island, which is the most densely populated borough of New York City.
ANSWER: **Manhattan**
<Jose, Geography - United States>

20. For 10 points each, answer the follow about capitals of the Roman Empire which are not Rome:
[10] This city became the capital of the Ostrogothic Kingdom after Odoacer overthrew the last Western Roman Emperor, Romulus Augustulus.
ANSWER: **Ravenna**
[10] In 330 C.E. this city was made the capital of the Eastern Roman Empire and was named after its founder, who had earlier convened the First Council of Nicaea.
ANSWER: **Constantinople** [prompt on Byzantium; do not accept or prompt on "Istanbul"]
[10] This member of the tetrarchy moved the capital of the Western Roman Empire to Mediolanum, which is now Milan. This emperor failed to depose his son, who was defeated by Constantine I at the Battle of the Milvian Bridge
ANSWER: **Maximian** [or Marcus Aurelius Valerius **Maximian**us Herculius Augustus]
<Jose, History - European>

21. The speaker of this poem meets "Dame Peace" and "Dame Patience" when he observes the Temple of Venus. For 10 points each:
[10] Name this poem composed in 1381. It is set on "Saint Valentine's Day" when each one of the title figures comes to "chase his mate."
ANSWER: The ***Parliament of Fowls*** [or The ***Parliament of Foules*** or The **Assembly of Fowls** or The **Assemble of Foules** or The **Parliament of Birds**]
[10] This author likely introduced the idea that St. Valentine's Day is a day for lovers in his poem "The Parliament of Fowls." At the end of his *The Canterbury Tales*, he asks for forgiveness for having written both works.
ANSWER: Geoffrey **Chaucer**
[10] "The Parliament of Fowls" is written in rhyme royal, which Chaucer also used for a poem in which this prince falls in love with a seer's daughter named Criseyde.
ANSWER: **Troilus**
<Jose, Literature - British>