

Bulldog High School Academic Tournament 2020 (XXIX): scary vibes

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Packet 12 Tossups

1. **Cold Genius sings “What Power Art Thou” in the “Frost Scene” from one of this composer’s operas. The Four Seasons perform a masque after Titania and Oberon are reconciled in another opera by this composer, who failed to complete *The Indian Queen* before his death. This composer’s incidental music to *Abdelazer* was used as the theme for (*) Britten’s *The Young Person’s Guide to the Orchestra*. The protagonist of one of this composer’s operas sings a chromatic recitative asking for her sister Belinda’s hand; she then requests “Remember me, but ah! Forget my fate” in the aria “When I am laid in earth.” For 10 points, name this composer of *Dido and Aeneas*.**

ANSWER: Henry Purcell <AY>

2. **This author wrote the collection *Five Modern Nō Plays*, which includes one called *The Lady Aoi*. A protagonist created by this author is repulsed by a picture of a knight when he is informed that the knight is actually Joan of Arc. That protagonist, Kochan, tries to fall in love with (*) Sonoko as he struggles, but ultimately fails, to repress his homosexuality. Mizoguchi burns down a building after remembering the *koan* “when you meet the Buddha, kill the Buddha” in another work by this author of *Confessions of a Mask*. For 10 points, name this author of *The Temple of the Golden Pavilion* who is perhaps more famous for committing *seppuku*.**

ANSWER: Yukio Mishima [or Kimitake Hiraoka; accept names in either order] <HK>

3. **An object’s metacenter should be well above its center of gravity for it to undergo this activity in a stable manner. A Cartesian devil stops doing this activity if the pressure on its container is increased enough. As the temperature rises in a Galileo thermometer, its movable components successively stop doing this activity. Objects undergoing this activity (*) displace exactly their own weight according to Archimedes’ principle, which describes how an object’s gravity is matched by an upward buoyant force. For 10 points, name this activity that is generally possible for objects immersed in a fluid that is denser than them, like humans in water.**

ANSWER: floating [accept word forms like float; accept buoyancy before “buoyant”] <SE>

4. **A politician declared that it was either “willful ignorance or abysmal intelligence” to think that an event in this city occurred spontaneously. This city’s Benina International Airport was closed for three years due to ongoing fighting, and the militia group Ansar al-Sharia primarily operated in this city. After an event in this city, Susan Rice removed herself from consideration to become (*) U.S. Secretary of State. Trey Gowdy chaired a 2014 House Select Committee to investigate an alleged cover-up of an event in this city, soliciting eight hours of testimony from Hillary Clinton. For 10 points, name this city in Libya where a 2012 attack killed U.S. Ambassador Chris Stevens.**

ANSWER: Benghazi <JS>

5. In Acts 4:11, Jesus is called a “rejected” one of these objects. In Luke 19:40, Jesus says that “if [his disciples] were silent, [these things] would cry out.” In Genesis, Jacob dreams of a staircase to heaven while using one of these things as a pillow at the future site of Beth-El. In Matthew 16:18, Jesus says “you are (*) Peter, and on [one of these things] I will build my church.” In John 8:7, when he is presented with an adulteress, Jesus says “let him who is without sin among you be the first to throw [one of these things].” For 10 points, name these objects, one of which killed Goliath when it was hurled from David’s sling.

ANSWER: stones [or rocks; or lithos; or lithoi; or petra; or hā-’e-ben] <MK>

6. A piano piece by this composer includes a controversial instruction to play the whole first movement “*senza sordino*” [senn-dzah “sore”-DEE-noh], i.e. with the pedal down. A late C-minor sonata by this composer uses insane time signatures like 12/32 [twelve thirty-two] in its closing “Arietta.” Sections marked “Grave” [GRAH-vay] and “Allegro di molto e con brio” [ah-LAY-groh dee MOLL-toh ay cohn BREE-oh] alternate in the first movement of this composer’s Piano Sonata number (*) 8 in C minor. This composer’s virtuoso sonatas have nicknames like “Waldstein” [VAHLT-shtein] and “Hammerklavier.” A C-sharp-minor piano sonata by this composer is subtitled *quasi una fantasia*. For 10 points, name this composer of thirty-two piano sonatas, with nicknames like “Pathétique” and “Moonlight.”

ANSWER: Ludwig van Beethoven <JW>

7. After a dictator of this country died of a heart attack while cavorting with four prostitutes, citizens satirically dubbed his death the “coup from heaven.” After seeing wartime conditions in this modern-day country, Bernard Kouchner co-founded “Doctors without Borders.” The environmental exploitation of this country by Royal Dutch Shell was protested by the (*) Ogoni activist Ken Saro-Wiwa. The government of this country fought a civil war against the secessionist Igbo state of Biafra. The British administered this modern-day country from the port of Lagos. For 10 points, name this West African country home to Boko Haram.

ANSWER: Federal Republic of Nigeria <VS>

8. These areas are geologically characterized by a low temperature, ultra-high pressure metamorphic path from zeolite through the blueschist and eclogite facies. There are steep-angle and flat slab varieties of these areas, where Wadati-Benioff zones occur. (*) Megathrust earthquakes, the most powerful kinds of earthquakes, originate in these zones. The Aleutian Trench in Alaska contains both a continental volcanic arc and an island volcanic arc, which are created in these regions. These regions only exist at convergent boundaries, and one of them formed the “ring of fire” in the Pacific. For 10 points, name these areas where one tectonic plate slides underneath another.

ANSWER: subduction zone [or subduction boundaries; prompt on “convergent boundary” before mention] <HK>

9. Alexander Pope authored translations of this poet’s works using heroic couplets. One translation of a work by this poet begins “tell me about a complicated man”; that line comes from a 2017 translation of one of this man’s poems by Emily Wilson, the first woman to translate this poet’s work into English. A translation of this poet’s work by George (*) Chapman was immortalized in a sonnet by John Keats. One challenge for translators of this poet is whether to add variance to his oft-repeated epithets, including ones frequently translated as “wine-dark” and “rosy-fingered.” For 10 points, what poet wrote about Achilles avenging the death of Patroclus in the *Iliad*?

ANSWER: Homer or [Homeros] <JW>

10. In college, this player reportedly said “board man gets paid” after pulling down rebounds. This player made the first Game 7 buzzer-beater in NBA history with a fall-away jumper that bounced four times on the rim before falling; that shot beat the Philadelphia 76ers. This player recently filed a lawsuit against Nike, alleging that the company copyrighted the (*) “Klaw” logo that he created. After leading Danny Green and Kyle Lowry to an NBA title, he joined Paul George in signing with the Los Angeles Clippers. For 10 points, name this man who won NBA Finals MVP in 2014 with the Spurs and in 2019 with the Raptors.

ANSWER: Kawhi Leonard [accept either name] <MK>

11. The Akwapim-Togo range in this country is home to its highest peak, Mount Afadja. The Akan people in this country make a cloth known as *kente* by interweaving strips of fabric. The black star in the center of this country’s flag was taken from the logo of a shipping company founded by Marcus Garvey. The construction of the Akosombo Dam in this country led to the formation of the largest man-made reservoir in the world, Lake (*) Volta. This country is bordered by the Ivory Coast to the west and Burkina Faso to the north, and its southern portion is home to the Ashanti people. For 10 points, name this country formerly known as the Gold Coast, with capital at Accra.

ANSWER: Ghana [or Republic of Ghana] <ZA>

12. After failing to provide a horse for the bride-gift of Hippodameia, this man foolishly promised the king of Seriphos whatever else he asked. At funeral games held by King Teutamides of Larissa, this man accidentally caused the death of Acrisius when the wind blew his discus astray, fulfilling an earlier prophecy that he would (*) kill his grandfather. This man was conceived after Zeus approached his mother Danae as a shower of gold. This man employed winged sandals and a reflective bronze shield to defeat the mortal sister of Stheno and Euryale.

Andromeda was the wife of—for 10 points—what slayer of the Gorgon Medusa?

ANSWER: Perseus <MK>

13. Wilhelm Franger argued this work was commissioned by the grandmaster of the Adamites. In a reference to their pride, women in this work balance cherries on their heads. Psalm 33 is written on this work’s exterior, above a grisaille [gri-zahy] depiction of the third day of creation. A unicorn drinks from a pool while a white giraffe stands nearby in one section of this work, while in another section, a (*) cauldron-wearing figure sometimes dubbed the “Prince of Hell” devours people and excretes them into a clear bowl. Naked figures and fantastical creatures frolic amidst strange pink and blue structures at the center of—for 10 points—what triptych by Hieronymus Bosch?

ANSWER: The Garden of Earthly Delights <AY>

14. EPR spectroscopy following spin trapping can be used to visualize and classify these entities, examples of which include Fremy’s salt and TEMPO. These species can be generated by compounds like AIBN, which is used to initiate (*) polymerization reactions mediated by these species. One theory of aging implicates these species, which include the superoxide anion. Antioxidants like Vitamins E and C scavenge and neutralize these species in the body. These species are generated by homolysis, and reactions involving them use fish hook arrows to show their transfer. For 10 points, name these highly reactive molecules containing unpaired electrons.

ANSWER: free radicals [prompt on electrons] <HK>

15. Sayings attributed to this man include “Isn’t it a pleasure to have friends come from afar?” This philosopher advocated generalism by saying “the gentleman is no vessel,” where “gentleman” stands for the hard-to-translate term *junzi*. This philosopher’s notion of the (*) five relationships, including Husband to Wife and Elder to Younger, is central to his concept of filial piety. This philosopher, whose beliefs formed the basis for the work of Mencius, argued for the central importance of the values of propriety, or *li*, and compassion, or *ren*. For 10 points, name this ancient Chinese philosopher who wrote the *Analects*.

ANSWER: Confucius [or Kongfuzi or Kongzi] <JW>

16. A poem by this author advises to “think where man’s glory most begins and ends, / and say my glory was I had such friends. This author of “The Municipal Gallery Revisited” wrote a poem describing a place where evening is “full of the linnet’s wings”; that poem’s narrator says he will “live alone in the bee-loud glade” after declaring (*) “I will arise and go now.” This poet wrote that “the ceremony of innocence is drowned” in a poem that ends by asking “What rough beast ... slouches towards Bethlehem to be born?” He described how “a terrible beauty is born” in a poem about a failed political uprising. For 10 points, name this Irish poet of “The Second Coming” and “Easter, 1916.”

ANSWER: William Butler Yeats <HK>

17. A conflict over this structure led protesters to march under the slogan “law, not war” and three governments to adopt the Protocol of Sèvres. Operation Telescope and a revised version of Operation Musketeer targeted this structure. A fighter blew up a statue of Ferdinand de Lesseps after a conflict over this structure. For mediating a conflict over this structure, (*) Lester Pearson won the Nobel Peace Prize. Shipping volume around the Cape of Good Hope dropped after the development of this structure. In 1956, Gamal Abdel Nasser nationalized this structure. For 10 points, name this Egyptian canal that links the Mediterranean Sea to the Red Sea.

ANSWER: Suez Canal [accept only “Suez” after “canal”] <MK>

18. One of this author’s characters goes to Harvard after saying goodbye to his girlfriend, who becomes a dressmaker in San Francisco and lives with Tiny Soderball. Joseph Vaillant helps the title character of a novel by this author to found a diocese in New Mexico; that title character is Jean-Marie Latour. In a novel by this author, Lena Lingard urges the narrator to go to (*) Black Hawk and visit the title Bohemian woman, the wife of Anton Cuzak. This author created the Shimerda family. For 10 points, identify this Nebraskan author of *Death Comes for the Archbishop*, who also wrote about Jim Burden and the title woman in *My Ántonia*.

ANSWER: Willa Cather <SL>

19. The ruler Desiderius controlled a kingdom centered in this modern-day country. A scholar imprisoned in this modern-day country composed *The Consolation of Philosophy*. At the encouragement of the exiled ruler Zeno, a king invaded this modern-day country and killed Odoacer. In this modern-day country, (*) “exarchs” ruled a city formerly controlled by Theodoric the Great. The Lombards established a kingdom in this modern-day country, where Ravenna is located. For 10 points, name this country where Pope Leo III crowned a French king “Emperor of the Romans” at St. Peter’s Basilica.

ANSWER: Italy [or Italian Republic; or Italia] <MK>

20. **Synthesis of the foldase BiP is upregulated during this organelle’s stress response. SRP recognition leads to elongation arrest and translocation of complexes containing nascent polypeptides into this organelle’s membrane. Some of these organelles sequester and, upon stimulation of ryanodine receptors, release (*)** calcium ions necessary for muscle contraction. Secretory proteins are synthesized into the lumen of this organelle. This organelle is continuous with the nuclear membrane, and though not the Golgi apparatus, it consists of flattened cisternae. For 10 points, name this organelle which has a “smooth” variety and a “rough,” ribosome-studded variety. ANSWER: **endoplasmic reticulum** [or **ER**; or rough **endoplasmic reticulum**; or smooth **endoplasmic reticulum**; accept **sarcoplasmic reticulum** or **SR** after “ryanodine”] <HK>

Tiebreaker

A speech said that this event’s instigators were a “motley rabble of saucy boys” and declared that “facts are stubborn things.” Robert Treat Paine and Samuel Quincy led the prosecution in the trial that followed this event, which was known to one side as the “Incident on King Street.” The engraving *The Fruits of Arbitrary Power* by (*) Henry Pelham depicts this event by showing a linear arrangement of eight men standing outside a custom house. Paul Revere later copied that engraving of this event. Crispus Attucks and four other American colonists died in—for 10 points—what 1770 event in which British soldiers fired into a crowd in Massachusetts? ANSWER: **Boston Massacre** [accept **Incident on King Street** before it is mentioned] <MP>

Bonuses

1. A number of semi-precious gemstones are composed of this mineral. For 10 points each:

[10] Name this mineral with chemical formula SiO₂. Amethyst, citrine, and aventurine are all semi-precious forms of this stone often used in jewelry.

ANSWER: **quartz**

[10] In order to enhance the color of gemstones, the stones can be exposed to this incredibly energetic agent generated from the decay of cobalt-60. When pearls are exposed to this agent, they turn grey or black.

ANSWER: **gamma** irradiation [accept **gamma** rays; prompt on radiation or irradiation]

[10] This nesosilicate mineral with a Mohs hardness of 8 is the stone most commonly treated by irradiation.

Naturally, most of these stones are yellow; irradiation creates the blue color for which their gem variety is prized.

ANSWER: **topaz** <HK>

2. In this novel, the Templar Brian de Bois-Guilbert kidnaps a Jewish woman named Rebecca. For 10 points each:

[10] Name this novel in which a mysterious knight named “Desdichado” wins a jousting tournament and Robin of Locksley wins an archery contest. The title character of this novel marries Rowena.

ANSWER: **Ivanhoe** (by Sir Walter Scott)

[10] *Ivanhoe* is an example of this literary genre in which the story occurs in the past, reconstructing the people and habits of an era. A modern example of this genre is Markus Zusak’s *The Book Thief*, which is set in Nazi Germany.

ANSWER: **historical fiction** [or **historical novel**]

[10] In this historical novel by Henryk Sienkiewicz, Marcus Vinicius falls in love with a Christian woman, Ligia, during the time of Nero. This novel’s Latin title derives from a question that Peter asked Jesus while fleeing Rome.

ANSWER: **Quo Vadis: A Narrative of the Time of Nero** <MK>

3. The satire *A-po-col-o-cyn-to-sis Claudii*, sometimes translated *The Pumpkinification of Claudius*, is generally attributed to this philosopher. For 10 points each:

[10] Name this Roman philosopher whose essay *On Anger* was inspired by Chrysippus’ *On Passions*. Nero drove this philosopher to slit his own wrists after the Pisonian conspiracy.

ANSWER: (Lucius Annaeus) **Seneca** the Younger

[10] Seneca, like Chrysippus, was a devotee of this ancient school of philosophy founded by Zeno of Citium. This school famously emphasizes calm and resilience in the face of misfortune.

ANSWER: **Stoicism** [accept **Stoics**]

[10] This Roman Emperor was also a practitioner of Stoicism. His personal reflections on Stoicism and attempts at self-improvement were published posthumously as the *Meditations*.

ANSWER: Marcus **Aurelius** <VS>

4. Under the Aztecs, Nahuatl was the primary language spoken in much of Mexico; now, it has been usurped by Spanish, but many places in Mexico—along with the country itself—retain Nahuatl names. For 10 points each:

[10] Name this largest state in Mexico, with a Nahuatl name meaning a “dry, sandy place.” El Paso lies across the Rio Grande from this state’s city of Ciudad Juárez.

ANSWER: **Chihuahua**

[10] This enormous city park on the outskirts of Mexico City has a Nahuatl name meaning “at grasshopper hill.” During the Mexican-American War, six “child heroes” died defending a castle that is now located in this park.

ANSWER: Bosque de **Chapultepec** [or **Chapultepec** Forest; or **Chapultepec** Castle; or **Chapultepec** Hill]

[10] Mexico City itself stands on the site of this Aztec capital. Its name was once thought to mean “among the prickly pears in the rocks,” but philologists have determined that this is untrue.

ANSWER: Mexica-**Tenochtitlan** <JW>

5. This leader presided over the “Miracle on the Rhine,” a period of economic revival in his country following World War II. For 10 points each:

[10] Name this Christian Democratic Union politician, the first Chancellor of West Germany. This politician’s government developed the Hallstein Doctrine of foreign policy.

ANSWER: Konrad **Adenauer**

[10] To rebuild West Germany, Adenauer partly used funds from this American reconstruction initiative managed by the government of Harry Truman. This initiative replaced the Morgenthau Plan.

ANSWER: **Marshall** Plan [or **European Recovery Program**; or **ERP**]

[10] In 1951, Adenauer entered West Germany into the European Coal and Steel Community, a forerunner to this organization comprising 27 European member states.

ANSWER: **European Union** [accept **E.U.**] <MK>

6. This painting’s central figure, who wears a black dress and a crescent tiara, rests her left hand on a wooden table. For 10 points each:

[10] Identify this painting, whose initial depiction of a jeweled dress-strap slipping off of Virginie Gautreau’s right shoulder scandalized Parisian society when displayed at the Salon of 1884.

ANSWER: *Portrait of **Madame X***

[10] *Portrait of Madame X* was painted by this American artist, who also depicted children playing with lanterns in *Carnation, Lily, Lily, Rose*.

ANSWER: John Singer **Sargent**

[10] Sargent also painted this work, in which two men play the guitar and another man shouts while a gypsy dancer performs the flamenco.

ANSWER: *El **Jaleo*** <SL>

7. Critics say that the Cincinnati Reds’ “Stache Dash” promotion has plagiarized this character. For 10 points each:

[10] Name this character that Atlanta Braves fans try to “beat” in a promotional footrace during home games. This character, who gives fans a sizable head start, typically wears a turquoise Spandex suit and ski goggles.

ANSWER: The **Freeze** [or “Beat the **Freeze**”; prompt on Nigel **Talton** by asking “What character does he play?”]

[10] While the “Beat the Freeze” promotion occurs during the fifth inning, a more commonplace interlude is the singing of “God Bless America” or “Take Me Out to the Ballgame,” which typically takes place in this inning.

ANSWER: **seventh**-inning stretch [or **seven**]

[10] The broadcaster Harry Caray popularized the singing of “Take Me Out to the Ballgame” while announcing for the White Sox, who play in this city. Caray later moved across town to announce for this city’s Cubs.

ANSWER: **Chicago** [accept **Chicago** White Sox or **Chicago** Cubs] <JS>

8. Answer some questions about creation stories in mythology, for 10 points each:

[10] In an example of an *ex nihilo* creation story—where the world is created from nothing—this Egyptian god thought the universe into being. This green-skinned, mummified god was the husband of Sekhmet.

ANSWER: **Ptah**

[10] Another *ex nihilo* creation story is recorded in this compilation of K’iche’ [KEY-chay] Maya myths. This text records the story of the Hero Twins, Hunahpu and Xbalanque [shh-bah-LAHN-kay].

ANSWER: **Popol Vuh**

[10] In creation stories from this region, the world is fashioned from the body of the monstrous dragon Tiamat. The epic of Gilgamesh originates from this region, which is bounded by the Tigris and Euphrates rivers.

ANSWER: **Mesopotamia** <AY>

9. Answer some questions about East Asian opera singers, for 10 points each:

[10] Chinese soprano He Hui [huh hway] has won critical acclaim as the title character of this Verdi opera, who is buried alive with her lover Radames in its final act. He's career was launched by a performance of this opera's *O patria mia*.

ANSWER: **Aida**

[10] Opera critic David Salazar wrote that South Korean tenor Younghoon Lee is the "go-to singer" for this other Verdi opera, whose title character is Manrico. This opera contains the "Anvil Chorus."

ANSWER: **Il Trovatore**

[10] Sumi Jo, another South Korean singer, won this award for her recording of Richard Strauss' *Die Frau Ohne Schatten*. The trophy for this prestigious musical award represents a gold gramophone.

ANSWER: **Grammy** Award <AY>

10. Audiences of this author's popular play *The Mousetrap* were traditionally instructed not to reveal the ending. Hint—Trotter is not who he seems to be. For 10 points each:

[10] Name this British author who created Miss Marple and Hercule Poirot.

ANSWER: Agatha **Christie**

[10] In this Agatha Christie novel, Vera Claythorne hangs herself after running into dangling seaweed. The nursery rhyme that grants this novel its title also describes the way in which ten murders are carried out in this book.

ANSWER: **And Then There Were None** [accept **Ten Little Indians**]

[10] Though she also wrote romances under a pseudonym, Christie is widely considered the "Queen" of this genre for novels like *And Then There Were None* and *Murder on the Orient Express*.

ANSWER: **crime** fiction [accept murder **mystery**, prompt on **whodunit** or **detective** fiction] <HK>

11. The proteins eos, aequorin, and kaede [kai-day] all enable this phenomenon in organisms like fireflies. For 10 points each:

[10] Name this phenomenon which can be displayed by organisms like *Vibrio fischeri* which contain the Lux operon. Anglerfish utilize this phenomenon to lure prey towards their waiting jaws.

ANSWER: **bioluminescence** [or **chemiluminescence**; do NOT accept or prompt on "fluorescence" or word forms]

[10] The Lux operon's A and B subunits code for this non-GFP "light-bringing" enzyme. This enzyme catalyzes the oxidation of a similarly-named protein to an excited state, whose decay yields bioluminescence.

ANSWER: **luciferase** [do not accept or prompt on "luciferin"]

[10] Many of these members of the phylum Cnidaria are bioluminescent, particularly those from the deep sea. These animals come in box, lion's mane, and moon varieties, and many possess tentacles which deliver painful stings.

ANSWER: **jellyfish** [or **Medusazoa**] <HK>

12. In its first version, Mary Boykin Chesnut's personal account of the Civil War was published under the title *A Diary From [this place]*." For 10 points each:

[10] Give this term that provides the nickname of the segregationist States' Rights Democratic Party. A song by Daniel Decatur Emmett calls this place "the land of cotton" where "old times ... are not forgotten."

ANSWER: **Dixieland** [or "I Wish I was in **Dixie**"; or "**Dixie**'s land"; or **Dixiecrats**]

[10] Emmett's song "Dixie" was played at the inauguration of this man, the first and only president of the Confederate States of America.

ANSWER: Jefferson (Finis) **Davis**

[10] Before becoming president of the Confederacy, Davis held this position in Franklin Pierce's cabinet. Edwin Stanton held this cabinet position for most of Abraham Lincoln's tenure.

ANSWER: Secretary of **War** <MK>

13. This composer's late masses include the *Missa Hercules Dux Ferrariae* and his second mass on "L'homme armé." For 10 points each:

[10] Name this French-born composer of the late fifteenth and early sixteenth centuries, to whom the song "Mille Regretz" is traditionally attributed. He also wrote the *frottola* "El Grillo" and a very smooth *Ave Maria*.

ANSWER: **Josquin des Prez** [zhaw-SKAN day pray] [accept either underlined portion]

[10] Josquin's fame can be partially attributed to Ottaviano Petrucci, who ran the first firm of *this* kind. Modern firms of this kind include Hal-Leonard, Schirmer, Henle, and Bärenreiter.

ANSWER: music **publishers**

[10] Josquin's music, like most music of the fifteenth and sixteenth centuries, is typically given *this* stylistic label, which more broadly refers to a "rebirth" of interest in Classical learning and art that started in Italy at that time.

ANSWER: **Renaissance** <JW>

14. This demon kidnapped Rama's wife, Sita, because Rama had cut off the nose of Surpanakha, this demon's estranged sister. For 10 points each:

[10] Name this evil, ten-headed demon king. This man was one of Shiva's greatest devotees and is sometimes still worshipped in that capacity.

ANSWER: **Ravana**

[10] In the *Ramayana*, these animals help Rama reach Ravana's kingdom by building a bridge. In a common Japanese image, one of these animals covers his eyes, a second covers his ears, and a third covers his mouth.

ANSWER: **monkeys** [or three wise **monkeys**]

[10] In the *Ramayana*, Ravana rules this island as his kingdom. When Lakshmana is wounded while attacking this island, Hanuman saves him, lifting the entire "mountain of healing herbs" and flying it across the strait from India.

ANSWER: **Lanka** [accept Sri **Lanka**] <HK>

15. The sign of this quantity determines whether a reaction is endothermic or exothermic. For 10 points each:

[10] Name this quantity symbolized H which measures the heat content of a system.

ANSWER: **enthalpy**

[10] This law states that enthalpy's calculation is path-independent because it is a state function. This law allows for the enthalpy changes of a reaction's steps to be summed to yield the reaction's total enthalpy change.

ANSWER: **Hess'** law [or **Hess'** law of constant heat summation]

[10] A cycle named for Haber and this man uses Hess' law to calculate the lattice enthalpy of ionic compounds. This physicist was the first to interpret the wavefunction as a probability amplitude.

ANSWER: Max **Born** [accept **Born**-Haber cycle] <MP>

16. Edward Abbey has been accused of promoting this kind of behavior in his book *The Monkey Wrench Gang*, which advocates the sabotage of environmentally harmful equipment. For 10 points each:

[10] Abbey has been an inspiration to proponents of the "eco-" variety of this behavior, which is defined generally as using violence, often against civilians, for political aims. Examples of this behavior include 9/11.

ANSWER: eco-**terrorism**

[10] Other environmentalists focus more on one's personal relationship with nature, like this author of *A Week on the Concord and Merrimack Rivers*. This author's magnum opus contains such sections as "Brute Neighbors."

ANSWER: Henry David **Thoreau**

[10] Still other environmentalists take a middle road, expressing overtly political opinions but without incitement to violence, like this author whose book *Silent Spring* led to a nationwide ban on DDT.

ANSWER: Rachel **Carson** <JW>

17. According to legend, this ruler first stood at the age of seven, when he pulled himself up from the earth with an iron rod. For 10 points each:

[10] Name this ruler who, in an oral tradition, was the son of a hunchbacked “buffalo woman.” This ruler was crowned after winning the Battle of Kirina.

ANSWER: **Sundiata** Keita [or **Sunjata**; or **Sonjara**]

[10] Sundiata established an empire whose rulers were known by this title. Another holder of this title crashed the Egyptian gold market while undertaking a journey that began at Niani.

ANSWER: **mansas** [or **Mansa** Musa]

[10] Sundiata and Mansa Musa, who began his *hajj* at Niani, ruled this West African empire. This empire controlled Timbuktu during the 14th century.

ANSWER: **Mali** Empire <ZA>

18. For a force of this type, the line integral around any closed contour will be zero. For 10 points each:

[10] Give this term for any force that can be written as the gradient of a scalar function. Work done by this type of force is path-independent.

ANSWER: **conservative** force

[10] One can integrate the work done by a conservative force to write a formula for this kind of energy of position. This kind of energy can be stored in a stretched spring, unlike kinetic energy of motion.

ANSWER: **potential** energy

[10] To calculate the work done by any force, one should compute the value of this operation applied to the force and an object’s displacement. This operation takes two vectors and returns a single number.

ANSWER: **dot product** [or **scalar product**; or **inner product**] <SE>

19. Answer some questions about Roman priesthods, for 10 points each:

[10] These Roman priestesses took thirty-year vows of chastity. The chief duty of these priestesses was to tend the eternal fire of Rome.

ANSWER: **Vestal Virgins** [or **Vestals**; **Vestales**]

[10] This Roman emperor formed a priesthood to serve a sun god, whom he imported from Syria in the form of a black stone. This emperor from the Severan Dynasty ruled from 218 to 222 A.D.

ANSWER: **Elagabalus** [or **Heliogabalus**; or Varius **Avitus Bassianus**]

[10] The Roman Salii priests guarded the *ancilia*, examples of these objects. In the “tortoise” formation, Roman soldiers locked these objects together to defend against arrows.

ANSWER: **shields** <MK>

20. The beginnings of this movement can be traced to Baudelaire’s poetry anthology *The Flowers of Evil*. For 10 points each:

[10] Name this poetic movement that, according to Stéphane Mallarmé, aimed “to depict not the thing but the effect it produces.” Its name derives from a literary term that describes the use of objects to represent an abstract idea.

ANSWER: **Symbolism**

[10] Baudelaire’s Symbolism heavily influenced Arthur Rimbaud, who wrote about his relationship with a “mad virgin” in this “delirious” prose poem.

ANSWER: *A **Season in Hell***

[10] Another Symbolist-inspired work is “Romance Sonámbulo,” which describes a green-haired woman standing under a “gypsy moon.” That poem is by this Spanish author of *Gypsy Ballads* and *Blood Wedding*.

ANSWER: Federico García **Lorca** <MGS>

Tiebreaker

Regarding an iconic structure in this place, one poet wrote “again the traffic lights that skim thy swift / unfractionated idiom, immaculate sigh of stars / beading thy path—condense eternity.” For 10 points each:

[10] Name this location, home to a structure that is the namesake of that poet’s collection *The Bridge*. An earlier poet wrote in one poem about “Crossing [this place] Ferry.”

ANSWER: **Brooklyn** [or “To **Brooklyn** Bridge”; “Crossing **Brooklyn** Ferry”]

[10] *The Bridge*, thought to have been written in response to T. S. Eliot’s *The Waste Land*, is the *magnum opus* of this American modernist poet who also wrote “The Broken Tower.”

ANSWER: (Harold) Hart **Crane**

[10] “Crossing Brooklyn Ferry” was written by this poet, a longtime Brooklyn resident like Crane. Many of his poems, including “Song of Myself,” were collected in *Leaves of Grass*.

ANSWER: Walt **Whitman** <JW>