1. **This value is set proportional to the derivative of n with respect to r in Kato's theorem. This quantity is related to the square root of the frequency of an emitted K-alpha line by Moseley's Law. According to the semi-empirical mass formula, binding energy is greatest when this quantity approximately equals twenty-six. A screening constant is subtracted from this value in order to determine effective nuclear charge in Slater's rules. For hydrogen-like atoms, the (*)** square of this quantity appears in the numerator of the Rydberg formula. Fission occurs when this quantity is greater than about seventy. Mendeleev ordered elements by this parameter in the Periodic Table. For 10 points, name this quantity symbolized Z, the number of protons an element has.
ANSWER: **atomic number** [or **Z** before mention; accept **nuclear charge** or **effective nuclear charge** before mention]

<Silverman>

2. **This nation's fables include a sea slug which stayed silent instead of vowing its obedience. One deity from this country crushed a servant's bones for failing to bring back a delicious liver. A fisherman from this country was thrown three hundred years into the future after saving a turtle and stayed in an ocean palace where jellyfish are servants and two jewels control the tide. Another god from this nation set out eight bowls of (*)** alcohol to win a battle, and was born when his father washed his nose. That god from this country obtained a grass-cutting blade after slaying an eight-headed serpent, and threw a flayed horse at his sister's loom. For 10 points, name this country whose water gods include the draconic Ryujin and Susano'o the storm *kami*.
ANSWER: **Japan** [or **Nippon**; or **Nihon**]

<Jackson>

3. **Legal reforms initiated by this man include paying jurors and restricting citizenship to those with both a native-born mother and father. He served as *choregos* by financing Aeschylus' play *The Persians*. A relative of Cimon was ostracized for publicly opposing a building campaign of this figure, who paid off King Pleistoanax so that he could focus on suppressing a revolt in Euboea. His critics frequently attacked his Milesian (*)** mistress, Aspasia. Thucydides described his plan for using his city's superior navy and walls to attempt to win one conflict. This man died in a 429 plague and gave a famed Funeral Oration to commemorate the the first year of the Peloponnesian War. For 10 points, name this ruler of the Athenian Golden Age.
ANSWER: **Pericles**

<Bentley>

4. **This man wrote that artists work to earn praise from others and art causes the decline of military virtue in an early prize-winning essay for the Academy of Dijon. In Book IV of another work by him, non-sectarian "natural religion" is praised over Christianity by a defrocked priest. This man held that *amour propre* should restrain self-interest. His "Profession of Faith of the Savoyard Vicar" bridges claims that young boys should (*)** learn from their environments, and that girls should only learn to please men. He believed that all people in society make up the "sovereign," whose "general will" is always good. For 10 points, name this man who discussed education in *Emile*, the Swiss Enlightenment author of *The Social Contract*.
ANSWER: Jean-Jacques **Rousseau**

<Jackson>

5. **One civilization based in this modern day country placed cremation jars outside of Sri Ksetra, the capital of Pyu. Men in this country wear a traditional dress called a longyi, and it was home to Mon Civilization. The Kachin Independence Army in this nation has staged a guerrilla campaign against its Myitsone Dam. Commodore Lambert instigated one of three wars this country fought against Britain. The Stilwell Road extended a** (*) namesake road used by the Chinese in this country in World War II. Ne Win was one of the thirty comrades who resisted the Japanese invasion of this country in the 1940s. In 2008, this country was devastated by Cyclone Nargis, and it underwent the Saffron Revolution. For 10 points, name this Asian country home to Aung San Suu Kyi.
ANSWER: Republic of the Union of **Myanmar** [or **Burma**]

<Bentley>

6. **34-year-old Mike Tate, who leads this party, is the youngest chair of a state-level political party in the U.S. One member of this party, Gordon Hintz, apologized in 2011 for shouting "you are dead" and an expletive at opposing party member Michelle Litjens. Fourteen members of this party, including Tim Carpenter and Robert Wirch, fled its home state in order to prevent a quorum from voting on a "budget repair bill." This party has twice failed to recapture the governor's mansion behind Tom** (*) Barrett, who lost ground in his second attempt in a year to defeat Republican Scott Walker. For 10 points, name this state party that did not win the recall election prompted by a controversial bill to reduce collective bargaining by state employees.
ANSWER: **Democratic** Party of **Wisconsin** [or anything reasonable that contains **Wisconsin** and a form of the word **Democrat**; prompt on partial answer]

<Weiner>

7. **One character created by this author opposes manners in favor of acting "naturally"; that character is saved from a scalding by boiling water by a man who later prevents Bormenthal from poisoning him with arsenic. A magic show at the Variety Theater takes place in another of his novels, one of whose title characters is told that "manuscripts don't burn" after he is handed a copy of his novel about** (*) Yeshua Ha-Notsri and Pontius Pilate. An operation transforms Sharik into Poligraf Poligrafovich in one novel by this author, who also wrote a novel in which MASSOLIT is targeted by the retinue of the mysterious Woland upon the latter's arrival in Moscow. For 10 points, name this Russian author of *Heart of a Dog* and *The Master and Margarita*.
ANSWER: Mikhail Afanasyevich **Bulgakov**

<Gupta>

8. **In hash map implementations, quadratic and linear probing techniques move along one of these data structures until free space is found. Dynamic forms of this data structure often double their size when they reach a certain threshold value and are implemented with namesake lists in Java. Jagged forms of these objects have a rank greater than 1. Dictionaries that store a key and a value are sometimes called** (*) associative forms of these data structures. These data structures provide constant time lookup and insertion operations. In Java, square brackets are used to find a value in these data structures at a given index. For 10 points, name these data structures that contain an ordered list of objects in contigous memory.
ANSWER: **Array**s

<Bentley>

9. **In a short novel by this author, the protagonist is impressed with a "sporting goods tree" and a fridge filled with fruit at his girlfriend's house. One of his characters yells at a girl called The Monkey for dressing like a prostitute. He wrote a novel set at Athena College, where a professor has an affair with janitor Faunia Farley and is accused of racism, but is secretly a black man posing as a white man. The novels (***)** *I Married a Communist* and *Operation Shylock* featured his recurring character Nathan Zuckerman. This author wrote a novel structured as a monologue about sexual adventures delivered by the title character to his psychoanalyst. For 10 points, name this Jewish author of *The Human Stain* and *Portnoy's Complaint*.
ANSWER: Philip Milton **Roth**

<Cheyne>

10. **This object inspires the thought that "My clouded reflection eyes me like a bird of prey" in the Yusef Komunyakaa poem "Facing It." The creation of this work is the subject of the documentary *A Strong, Clear Vision*. It is complemented by a bronze group depicting three white, black, and Hispanic men designed by Frederick Hart. The design of this (***)** V-shaped sculpture was selected from over a thousand submissions by a panel that settled on the idea of a 21-year-old Asian-American Yale student. For 10 points, name this memorial designed by Maya Lin and consisting of a black wall with over 50,000 names.
ANSWER: the **Vietnam Veterans' Memorial** [prompt on **Vietnam Memorial** or other partial answers; do not accept or prompt on "Vietnam War Memorial"]

<Bollinger>

11. **During the Christian End Times, a childbearing woman will escape one of these places created by the Red Dragon. In Ezekiel 47, a man leads the narrator east to one of these places, and Ezekiel had his first prophecies at one of these called Kebar. Jacob limps by one of these called Jabbok after wrestling the angel. Ephraimites were killed at one of these places if they failed to properly pronounce the word (***)** "shibboleth." After Jesus exited one of these places, the Holy Spirit descended as a dove and God spoke. Amos 5:24 asks justice to "roll" like one of these locales. Pharaoh's priests laughed off the bloody appearance of a large one during the first plague. For 10 points, name this type of geographic feature which baby Moses traveled down in a basket.
ANSWER: **river**s [or **stream**s; or **ford**s]

<Jackson>

12. **This man's political opponents published a fake travelogue titled *Roorback's Tour through the Southern and Western States* that claimed he branded his initials on the 40 slaves he owned. As President, he created the Department of the Interior and signed the Walker Tariff into law. This one-time Speaker of the House dispatched Nicholas (***)** Trist to negotiate a foreign treaty. His political opponents asked "Who is [this man]" after he outmaneuvered Lewis Cass and Martin Van Buren to gain the nomination at the 1844 Democratic Convention. For 10 points, name this Tennessee governor who as President acquired some of the Oregon Territory and presided over the Mexican War, a dark horse candidate who served between John Tyler and Zachary Taylor.
ANSWER: James Knox **Polk**

<Bentley>

13. **After this man's death, a friend of his made a compendium of engravings based on this man's paintings, which is called the *Recueil Julienne*. In one of his portraits, the male subject has pink ribbons on his shoes, but apart from that is dressed almost entirely in white. That subject is believed to represent the character Pierrot and is called *Gilles*. A scene from Florent (*)** Dancourt's *The Three Cousins* inspired another painting by this artist, which includes a garlanded statue of Venus on the right. *Putti* frolic around the pink sails of a ship in that painting, which depicts a *fete-galante* on the legendary island where Venus was born. For 10 points, name this French Rococo painter of *The Embarkation for Cythera*.

ANSWER: Jean-Antoine **Watteau**

<Rosenberg>

14. **Epac's are exchange factors activated by this compound. HCN channels are activated by the binding of this substance. This substance is used as a chemoattractant by Dictyostelium during aggregate formation. In higher eukaryotes, most functions of this compound are mediated by its attachment to the two regulatory subunits of protein kinase A. This substance binds to the Catabolite Activator Protein in order to suppress the (*)** lac operon in the presence of glucose, and this substance is broken down by phosphodiesterase. This substance is produced after G-proteins activate adenylate cyclase, which synthesizes this substance from ATP. For 10 points, name this second messenger which is a nucleotide containing an extra ring.

ANSWER: **cyclic AMP** [or **cAMP** or **cyclic adenosine monophosphate**]

<Mukherjee>

15. **This man's father died at Eboracum after fighting the Picts. He was officially granted the title of Augustus after marrying Fausta, a woman who would later accuse his first-born son of seducing her. One meeting called by this emperor isolated Athanasius of Alexandria in favor of Eusebius of Caesarea, the latter of whom would go on to eulogize him. This father of Crispus briefly allied with Licinius against (*)** Maximinus II. Lorenzo Valla proved a case of forgery regarding this man's namesake "donation." This emperor expanded on Galerius' Edict of Serdica to guarantee religious freedom through the Edict of Milan, and saw a cross in the sky before the Battle of Milvian Bridge. For 10 points, name this first Christian Roman emperor.

ANSWER: **Constantine** the Great [or **Constantine I** or **Saint Constantine**]

<Bentley>

16. **For an inductor, this quantity is equal to j times the frequency times the inductance. For a lossless line, the characteristic form of this quantity is equal to the square root of L over C. This quantity is used to normalize both axes of a Smith chart. The maximum power transfer theorem states that maximum power is transferred when this quantity of a source equals its complex conjugate across the junction. The reflection coefficient is a function of this quantity between (*)** two materials. The inverse of this quantity is the admittance. This quantity is equal to i times the reactance plus the resistance. For 10 points, name this quantity symbolized Z, a generalized form of electrical resistance applied to AC circuits.

ANSWER: **impedance** [prompt on **Z**]

<Mukherjee>

17. **Jack London's novel *The Iron Heel* influenced a a text about this belief The Organization pseudonymously published. The number 88 is a secret sign of this ideology, whose subscribers often chant the Fourteen Words. A poorly planned invasion of Dominica was led by another follower of this ideology that violently takes over the United States in *The Turner Diaries*. Don Black founded the (*)** Stormfront forum, a rallying place for groups with this belief that include WSUs for "persons of European heritage". The biggest type of group that backs this ideology is usually led by a Grand Wizard, and its members burn crosses and don white robes. For 10 points, name this racist ideology against people of color held by the Ku Klux Klan.
ANSWER: **white supremacy** [or **white nationalism**; or **white separatism**; prompt on **Neo-Nazi**sm]

<Gupta>

18. **One member of this family is inspired by a missionary's story of "brothers who lived in darkness and fear, ignorant of the love of God". The Scholarship Board employs a member of this family who attends a college dance where he continually steps on the toes of a girl for whom he later arranges an abortion. This family includes a man who changes his name to "Isaac" and a man who moves to England, where he meets an (*)** *osu* named Clara. The patriarch of this family wrestles Amalinze the cat, adopts and then kills Ikemefuna, and has his gun go off during Ezeudu's funeral, prompting his expulsion from Umuofia. For 10 points, identify this family which includes the protagonists of Chinua Achebe's *No Longer at Ease* and *Things Fall Apart*.
ANSWER: the **Okonkwo** family [accept equivalents that signify "descendants of Okonkwo" or "Okonkwo's family"]

<Mehigan>

19. **This composer's last three piano sonatas were written in his final year, and are in C minor, A major, and B-flat major respectively. Orchestrations of this composer's *Grand Duo* are sometimes used as a substitute for his supposed missing "Gastein" Symphony. The second movement of his *String Quartet No. 13* reuses a melody from his incidental music to a play about a Princess of Cyprus. He wrote a piano quintet that uses a (*)** double bass instead of a second violin, and which includes variations on his *lied* "Die Forelle". His incidental music to *Rosamunde* is sometimes used to "complete" his two-movement eighth symphony. For 10 points, name this Austrian composer of the *"Trout" Quintet* and the *"Unfinished" Symphony*.
ANSWER: Franz (Peter) **Schubert**

<Lawrence>

20. **This author presented Biblically-derived support for polygamy in his *De Doctrina Christiana*, while his *Tetrachordon* and *Colasterion* both defend an idea he first promulgated in *Doctrine and Discipline of Divorce*. The controversy sparked by those works led him to write a pamphlet analyzing the "usefulness" and "harmfulness" of the Licensing Order of 1643. In one of his poems, (*)** Mulciber builds a house for a character who disguises himself as a cherub to trick Uriel and proclaims that it is "better to reign in hell than serve in heaven". That poem attempts to "justify the ways of God to man" and depicts Adam and Eve's expulsion from the Garden of Eden. For 10 points, name this author of *Areopagitica* and *Paradise Lost*.
ANSWER: John **Milton**

<Nutter>

21. **Dawit Wolde Giorgis's *Red Tears* chronicles his attempts to stop one of these events. One of these events was brought to public attention through a film shot in Korem by Mohamed Amin that was broadcast on the BBC. The disparate North/South impact of one of these events in 1945 helped precipitate the Vietnam War. President Mengistu was criticized for spending $150 million on an anniversary celebration during one of these events. A (*)** 1943 example in Bengal was blamed on poor resource allocation by Amartya Sen, while a more famous one inspired the song "Do They Know It's Christmas?" and the Live Aid concert. Ethiopia was ravaged in the 1980s by, for 10 points, what kind of event often triggered by drought and characterized by massive food shortages?

ANSWER: Mass **Famine**s [accept precise equivalents like "food specific examples like Ethiopian **Famine**; prompt on "drought"]

<Bentley>

22. **This organelle's namesake protein 19 is mutated in Diamond-Blackfan anemia, and the binding between its L11 protein and Rel A is required for the stringent response in E. coli. This organelle is targeted by aminoglycosides. Viral genomes often have namesake internal entry sites for this organelle. The quality of a total RNA extraction can be assayed by looking at the ratio between two components of this organelle, which has (*)** 40S and 60S components in eukaryotes. In prokaryotes, this organelle requires the Shine-Dalgarno sequence to bind to its substrate. This organelle contains A, P, and E sites, which are used to align tRNA anticodons to mRNA codons during the process of translation. For 10 points, name this organelle which is synthesizes proteins.

ANSWER: **ribosome**

<Mukherjee>

23. **This man's ambitions were hurt when the *New York World* ran a headline about "Belshazzar's Feast" describing his dinner at Delmonico's with men like Jay Gould. Theodore Frelinghuysen undid much of this man's work as Secretary of State, including his attempt to organize the first Pan-American Conference. Allegations that he was paid for worthless bonds by the Union Pacific Railroad led one of this man's presidential bids to be derailed by the (*)** Mulligan Letters. At the 1876 Republic Convention, Robert Ingersoll dubbed this man the "Plumed Knight," and he attacked a famous opponent with the slogan, "Ma, Ma, where's my Pa?" For 10 points, name this "continental liar from the state of Maine" who lost to Grover Cleveland in the 1884 presidential election.

ANSWER: James Gillespie **Blaine**

<Bentley>

24. **An American author with this surname used his experience as a paratrooper in Vietnam in the novella *The Barracks Thief* and wrote the short story collection *In the Garden of the North American Martyrs*. Another author of this surname addressed his critics in *The Story of a Novel* and wrote a novel in which Esther Jack introduces George Webber to New York society. That author of *The (*)** Web and the Rock* fictionalized himself as a character who falls in love with Laura James and loses his inheritance to his brother Luke before leaving Altamont for Harvard. That author with this surname created Eugene Gant. For 10 points, give the surname of *This Boy's Life* author Tobias and *Look Homeward, Angel* author Thomas.

ANSWER: **Wolfe** [or **Wolff**]

<Bentley>

1. At this man's wedding, a fight broke out between the Centaurs and his people, the Lapiths. For 10 points each:

[10] Name this hero from Thessaly who went on quests to abduct women beside his close friend Theseus.
ANSWER: **Pirithous** [or **Peirithous**; or **Peirithoos**]

[10] This god keeps Pirithous stuck to a chair permanently for daring to abduct Persephone back from him. He is the brother of Zeus and Poseidon.
ANSWER: **Hades** [or **Pluto**n; or **Dis** Pater]

[10] A woman of this name was Pirithous's bride. Another woman of this name, a daughter of King Oenomaus, married Pelops after a rigged chariot race.
ANSWER: **Hippodamia** [or **Hippodameia**]

<Silverman>

2. A group led by Agliè claiming to be the Tres seeks information supposedly gathered by the Knights Templar about the "Umbilicus Mundi", which would allow them to control the world's "telluric currents", in this novel. For 10 points each:

[10] Identify this novel divided into ten sections representing the ten Sefirot. In it, Belbo, Diotallevi, and Casaubon create a conspiracy which they call "the Plan" using the computer Abulafia.
ANSWER: *Foucault's Pendulum* [or *Il **Pendolo di Foucault***]

[10] This Italian semiotician, medievalist, and postmodernist author wrote *Foucault's Pendulum*. His other novels include *Baudolino*, *The Prague Cemetery*, and his popular debut, *The Name of the Rose*.
ANSWER: Umberto **Eco**

[10] In *The Name of the Rose*, William of Baskerville and Adso of Melk discover that the root cause of a series of murders was a poisoned copy of this lost Aristotle text, which Jorge of Burgos eats at the novel's end.
ANSWER: the *Comedy* [or *Komodia*; prompt on "the *Poetics*"]

<Carson>

3. This architect allegedly invented the flip-up seats now found in stadiums and movie theaters. For 10 points each:

[10] Name this architect whose Prairie School work includes the Robie House and the Unity Temple.
ANSWER: Frank Lloyd **Wright**

[10] Wright spent his winters at this Arizona estate, which includes a hexagonal dinner theater and a house furnished with "origami" chairs. The apprentice system Wright used to build this site developed into the world's smallest accredited architecture school.
ANSWER: **Taliesin West** [do not accept or prompt on "Taliesin"]

[10] Wright designed his first major public work, the Larkin Administration Building, for this American city, where he also designed a house for Larkin employee Darwin Martin. Louis Sullivan and Dankmar Adler designed this city's Guaranty Building.
ANSWER: **Buffalo**, New York

<Mehigan>

4. This man's namesake factors are used to calculate the probability of a particle to be in a certain state at a given temperature. For 10 points each:
[10] Name this physicist and chemist who co-names a distribution representing particle velocities as a function of temperature, with Maxwell.
ANSWER: Ludwig **Boltzmann**
[10] Boltzmann's namesake constant equals the quotient of the gas constant and this other value, which is the number of atoms in twelve grams of carbon-twelve. It is the number of objects in one mole.
ANSWER: **Avogadro**'s number
[10] Boltzmann's constant is the proportionality constant between entropy and the natural log of the number of these at a given temperature. These states represent all of the possibilities of energy distribution for each atom in a molecule.
ANSWER: **microstate**s

<Silverman>

5. This principle explains why international trade is beneficial even if a single country could produce any given good more efficiently than any trading partner. For 10 points each:
[10] Name this concept developed by David Ricardo, which shows that, when opportunity costs are taken into account, trade benefits both partners.
ANSWER: **comparative advantage**
[10] This extension of comparative advantage states that countries will specialize in goods that make use of their factor endowments; or, in other words, that countries with a high labor supply will trade labor-intensive goods to countries with a high capital supply. The fact that it does not apply to the United States constitutes the Leontief paradox.
ANSWER: **Heckscher-Ohlin** theorem [accept words like "model" for "theorem"]
[10] Comparative advantage is lost when countries pursue this principle of minimizing trade as much as possible to develop total self-sufficiency. North Korea currently pursues this status as part of the Juche philosophy.
ANSWER: **autarky**

<Weiner>

6. Shortly after his greatest victory, this ruler executed his vizier Candarli Halil Pasha. For 10 points each:
[10] Name this Ottoman sultan whose second reign lasted from 1451 until 1481. His greatest military feat was aided by massive cannons designed by a Hungarian named Orban.
ANSWER: **Mehmed II** [or **Mehmed the Conqueror** or **Mehmet II** or **Mehmet the Conqueror** or **Mahomet II** or **Mahomet the Conqueror**]
[10] Mehmed II earned the epithet "the Conqueror" after he successfully took this city in 1453. Mehmed subsequently made this city the capital of his empire.
ANSWER: **Constantinople** [or **Istanbul**]
[10] The Candarlis were eclipsed in prominence by the Albanian Köprülü family, whose most infamous member was this vizier to Mehmed IV. His 1683 attack on Vienna was repulsed by Jan Sobieski.
ANSWER: Merzifonlu **Kara Mustafa** Pasha [prompt on partial answer]

<Bentley>

7. For 10 points each, answer the following about cosmic voids.
[10] Since most of the universe is populated with cosmic voids on a large scale, the universe mostly has this property with respect to mass, which means said property is uniform with respect to all directions. WMAP showed that the CMBR lacks this property in some regions.
ANSWER: **isotropy** [accept word forms; do not accept the opposite answer, "anisotropy."]
[10] Cosmic voids are the regions of empty space between filaments of these entities, which typically come in spiral and elliptical types. The Magellanic Clouds is a set of two of them.
ANSWER: **galaxies**
[10] Most of the volume of the Virgo Supercluster is made up of cosmic voids, but it does contain this group of galaxies, which includes the Milky Way.
ANSWER: **Local** Group

<Jose>

8. This man got himself elected to Congress in 1982 in order to get immunity from prosecution. For 10 points each:
[10] Identify man who had a fax machine, soccer field, and hot tub added to his "prison" known as La Catedral, the leader of the infamous Medellin Cartel.
ANSWER: Pablo Emilio **Escobar** Gaviria
[10] Escobar made his fortune trafficking this drug, whose crack form was the subject of controversial mandatory sentencing laws in the U.S.
ANSWER: **Cocaine** [or **benzoylmethylecgonine**]
[10] Colombian president Cesar Gaviria created this special ops unit specifically to hunt down Escobar, which it did in 1993 after allying with Los Pepes. It was invoked again in 2007 to target the Black Eagles.
ANSWER: **Search Bloc** [or **Bloque de Búsqueda**]

<Bentley>

9. The protagonist of this short story was warned by an old man at Sulphur Creek of the dangers of cold weather and traveling alone, and ultimately dies with his wolf-dog by his side. For 10 points each:
[10] Identify this short story in which a tenderfoot attempts to perform the title action to dry off after soaking his legs during a trip through the frigid Klondike.
ANSWER: "**To Build a Fire**"
[10] "To Build a Fire" is a short story by this author of *White Fang* and *The Call of the Wild.*
ANSWER: Jack **London** [or John Griffith **London**]
[10] Another literary work about freezing to death in the Yukon is "The Cremation of Sam McGee", a poem from the collection *Songs of a Sourdough* by this Canadian poet, the so-called "Bard of the Yukon".
ANSWER: Robert William **Service**

<Bentley>

10. Name these places near the Torres Strait, for 10 points each.
[10] The Torres Strait separates this island, the world's second largest, from Australia. This island is split between Indonesia and a country whose capital is Port Moresby.
ANSWER: **New Guinea** [do NOT accept or prompt on "Papua New Guinea"]
[10] South of the Torres Strait is the Cape York Peninsula, which is part of this Australian state. Cities in this state include Gold Coast and Cairns.
ANSWER: **Queensland**
[10] To the west of the Torres Strait is this sea, which separates Australia's Arnhem Land from the Indonesian province of West Papua. This sea lies north of the Gulf of Carpentaria.
ANSWER: **Arafura** Sea

<Wasserman>

11. This man is credited with coining the phrase "splendid little war" for the Spanish-American War. For 10 points each:

[10] Identify this Secretary of State who secured for the United States land it needed to build the Panama Canal in a treaty he signed with Phillipe Bunau-Varilla.

ANSWER: John Milton **Hay**

[10] John Hay supported the Spanish-American War as Secretary of State for this President, who was killed by Leon Czolgosz.

ANSWER: William **McKinley**

[10] The Hay-Bunau-Varilla treaty was a successor to an unratified 1903 treaty that Hay had signed with this Colombian diplomat. Hay's treaty with this man would have given the US control over a six mile strip of Colombia in perpetuity.

ANSWER: Tomás **Herrán** y Mosquer

<Bentley>

12. In one work, this author recounted how he was reported dead after being wounded in World War I while serving in the Royal Welch Fusiliers. For 10 points each:

[10] Identify this author of the autobiography *Goodbye To All That* who went into exile in Majorca.

ANSWER: Robert von Ranke **Graves**

[10] Graves is best known for his two historical novels about this Roman emperor, whose wife Messalina engages in notorious depravities behind his back.

ANSWER: **Claudius** [or Tiberius **Claudius** Caesar Augustus Germanicus]

[10] Agabus the Decapolitan narrates a historical novel by Graves which depicts this religious figure as a philosopher, prophet, and possible descendant of Herod the Great, rather than as the supernatural son of God.

ANSWER: **Jesus** **Christ** [accept either underlined portion; also accept ***King Jesus***]

<Bentley>

13. One disease that can affect this organ is Keshan disease, which is due to a lack of dietary selenium. For 10 points each:

[10] Name this organ that is also affected by ventricular flutter. An EKG is used to diagnose problems with this organ's electrical conduction system.

ANSWER: **heart**

[10] Rheumatic fever can cause stenosis of this heart valve, which is found between the right atrium and the right ventricle. It is displaced in Ebstein's anomaly.

ANSWER: **tricuspid** valve

[10] Athletic heart syndrome is a non-pathological version of this condition characterized by a pulse that's slower than normal.

ANSWER: **bradycardia**

<Morlan>

14. This man is held to be the ancestor of the Bedouin in Jewish traditions. For 10 points each:
[10] Name this ancestor of Muhammad who, according to Islam, went up Mount Moriah when his father was tested. He grew up in the desert of Paran after being sent into exile with his mother.
ANSWER: **Ishmael** [or **Yishma'el** or **Ismael** or **Ismail**]
[10] In Islam, Abraham left Ishmael at this boxlike shrine with his mother Hagar. Pilgrims on the hajj circle the Black Stone in this shrine, to which Muslims direct their prayer.
ANSWER: the **Kaaba** [or **Square House**]
[10] This tribe, to which Muhammad belonged, is held to have descended from Ishmael's son Kedar. Clans within this tribe included the Zuhra and the Hashim.
ANSWER: **Quraysh** [or **Kuraish** or **Koreish**]

<Bentley>

15. A war named for this city state ended with the Peace of Antalcidas, and it was ruled by tyrants like Cypselus and his son, Periander. For 10 points each:
[10] Identify this Greek city state. Although Lucius Mummius destroyed it in 146 BCE, it was subsequently made the capital of the Roman province of Achaea.
ANSWER: **Corinth** [or **Kórinthos**]
[10] This king conquered Corinth and set up the League of Corinth as a client state. He allied with Thebes in the Thessalian League during the Sacred War, but later defeated it at Chaeronea.
ANSWER: **Philip II** of Macedon
[10] Chaeronea marked the end of this elite Theban military unit, whose members often formed sexual relationships. Pelopidas led this unit under Epaminondas.
ANSWER: The **Sacred Band** or **Hieròs Lókhos**

<Bentley>

16. Maurice Merleau-Ponty applied this discipline's ideas to embodiment, and its idea of intersubjectivity influenced existentialism. For 10 points each:
[10] Name this early 20th-century discipline started by Edmund Husserl, the study of individual consciousness and experience.
ANSWER: **phenomenology**
[10] This German book, dedicated to Husserl, drew on ideas from phenomenology to analyze self-conscious existence, which it called *Dasein*.
ANSWER: *Being and Time* [or *Sein und Zeit*][by Martin Heidegger]
[10] Husserl tried to reject this belief championed by Descartes, the idea that the mind is a thing distinct from the physical substance of the body.
ANSWER: mind-body **dualism** [or Cartesian **dualism**; or being a **dualist**]

<Jackson>

17. For 10 points each, answer the following about Baroque oratorios.
[10] This German Baroque composer wrote the *Music for the Royal Fireworks*, but is better remembered for such oratorios as *Saul*, *Israel in Egypt*, and *Messiah*.
ANSWER: George Frideric **Handel**
[10] This oratorio by Handel is often performed around Hanukkah and sees the title character lead his forces to victory. Its popular chorus "See the Conqu'ring Hero Comes" was actually written originally for the oratorio *Joshua*.
ANSWER: ***Judas Maccabaeus***
[10] This J.S. Bach oratorio is the later of the two surviving passions that he wrote and opens with the chorus "Kommt, ihr Töchter, helft mir klagen". Felix Mendelssohn sparked a revival in Bach's works when he conducted an 1829 performance of this piece.
ANSWER: ***St. Matthew**'s **Passion**, BWV 244* [or ***Passion According to St. Matthew***; or ***Matthäus-Passion***]

<Berend>

18. The principle of least action states that a system always takes a path that minimizes the time integral of this quantity. For 10 points each:
[10] Name this quantity whose Legendre transform is the Hamiltonian. The time derivative of its derivative with respect to velocity equals its derivative with respect to position.
ANSWER: **Lagrangian**
[10] The Lagrangian is defined as the difference between the kinetic and potential forms of this quantity, measured in joules.
ANSWER: **energy**
[10] This theorem states that if the Lagrangian is invariant under changes in a variable, then that variable's corresponding momentum is conserved. Consequences of this theorem include the conservation of energy, linear momentum, and angular momentum.
ANSWER: **Noether**'s theorem

<Chen>

19. This artist used a Baudelaire line to title his *Luxe, Calme et Volupte* and included a reclining woman playing a woodwind instrument in the foreground of a different painting. For 10 points each:
[10] Name this founder of the Fauvists who painted *Harmony in Red* and *The Joy of Life*.
ANSWER: Henri-Emile-Benoit **Matisse**
[10] Five naked women join their hands in a circle in this Matisse painting, which is similar to his *The Joy of Life*.
ANSWER: *The **Dance*** [or *La **Danse***]
[10] Matisse once studied under this French Symbolist painter, who painted an elaborately decorated throne into his *Jupiter and Semele*. His paintings of mysterious and fantastic scenes include *Oedipus and the Sphinx* and *The Apparition*.
ANSWER: Gustave **Moreau**

<Bentley>

20. The speaker notes that a "permanence of stone and language" upheld the title location of this poem, whose third section uses an image of a shaky hand holding a coffee cup to represent the way that city dwellers waste their lives. For 10 points each:

[10] Identify this long poem that comprises the second section of *Canto General*. Its twelfth canto claims "I come to speak for your dead mouths" and opens "Arise to birth with me, my brother".

ANSWER: "The **Heights of Macchu Picchu**"

[10] "The Heights of Machu Picchu" was written by this Chilean poet, who lamented that "in you, everything sank!" in the closing poem of his *Twenty Love Poems and a Song of Despair*.

ANSWER: **Chile**

[10] In the twentieth "Love Poem", the quote "The night is shattered / and the blue stars shiver in the distance" is provided as an example of these things. The poem opens with the speaker's claim that "Tonight I can write" these things.

ANSWER: "the **saddest lines**" [or "los **versos más tristes**"; prompt on partial answer]

<Bentley>

21. This system was pioneered by Ken Thompson and Dennis Ritchie at Bell Labs and incorporated ideas from Multics like making the shell a separate user process. For 10 points each:
[10] Identify this system that came with make and man utilities. BSD was modeled after this system which should not be confused with a related system developed by Linus Torvalds.
ANSWER: **Unix**
[10] Unix is an example of these entities, which function at a lower level than programs and handle operations like memory management and the virtual file system, usually using kernels. Other examples include Android and Windows.
ANSWER: **Operating System**s [or **OS**]
[10] On Unix style systems, this command will display files in the current directory. It is analogous to dir.
ANSWER: **ls**

<Bentley>

22. Characters in this work include the schoolteacher Mr. M'Choakumchild, the industrialist Josiah Bounderby, and Sissy Jupe, the daughter of circus performers. For 10 points each:
[10] Identify this Victorian novel in which the "eminently practical" Thomas Gradgrind runs a school in Coketown which teaches the supremacy of facts over fancy.
ANSWER: *Hard Times - For These Times*
[10] *Hard Times* is a novel by this English author of *Bleak House*, *Martin Chuzzlewit*, and *Oliver Twist*.
ANSWER: Charles John Huffam **Dickens**
[10] This unfortunate character from *Hard Times* is accused of stealing 150 pounds from a bank, an act that was actually carried out by the younger Gradgrind. He falls into a mine shaft while returning to Coketown to prove his innocence, and later dies from his injuries.
ANSWER: Old **Stephen** **Blackpool** [accept either underlined answer]

<Bentley>

23. One prefect of this group, Arrius Aper, was accused of poisoning Carus. For 10 points each:
[10] Identify this group tasked with protecting the Roman emperor.
ANSWER: **Praetorian** Guard
[10] Praetorian Guard member Cassius Chaerea assassinated this emperor, apparently in part because he was forced to use embarrassing passwords like "Priapus". His "little boot" nickname was given to him while hanging around military camps as a youth.
ANSWER: **Caligula** [or **Gaius** Julius **Caesar** Augustus **Germanicus**]
[10] This Syrian-born Roman emperor served as head of the Praetorian Guard under Gordian III. He celebrated the 1000th anniversary of Rome in 248 CE before he was defeated by Decius.
ANSWER: **Philip** the Arab [or Marcus Julius **Philippus** Augustus or **Feyleyb** al-Arab or **Philippus** Arabs]

<Bentley>