**2019 National All-Star Academic Tournament**

**Round 12 – Tossups**

1. Norwegian initiates into this organization were forced to sing and answer questions while inhaling smoke in the so-called “Bergen Game”. In response to abuses of power by this organization, English mobs rose up and killed anyone who could not say “bread and cheese” with an English accent. This organization met in London in an area called the Steelyard, and the development of the Cog gave this organization an advantage over its rivals. Ivan III of Moscow took control of this organization's outpost in Novgorod, which was part of a chain of buildings called *kontors* built by this organization. During a war with Sweden that ended before it could be used, this organization built the massive warship *Eagle of Lübeck*, was named after this organization's headquarters. For 10 points, name this coalition of merchant guilds that dominated the North and Baltic seas in the late medieval period.  
ANSWER: **Hanseatic League** [accept **Hansa**]  
*<History European 1400-1914 - Jankov>*

2. It was illegal to collect macroeconomic statistics in this city under libertarian bureaucrat John Cowperthwaite. A year after Cowperthwaite left office, a fire broke out on a former ocean liner in this city's harbor, ruining plans to turn the RMS *Queen Elizabeth* into a floating university. This city's transit system was an early adopter of contactless payment cards; those Octopus Cards are now widely accepted in restaurants. A former fort in this city morphed into a slum demolished in the 1990s that once had a population density 20 times that of Manhattan. This city once contained Kowloon Walled City, and its natives have agitated for autonomy in the “localist” movement since an agreement that transferred power away from its last governor, Chris Patten, and promised “one country, two systems.” For 10 points, name this city that the British ceded control of in 1997 to China.  
ANSWER: **Hong Kong** [or **Hong Kong** Special Administrative Region of the People's Republic of China]  
*<Geography World - Bentley>*

3. Wen Chu-an translated many works from this literary movement into Chinese. An author from this movement wrote “I'm a traveller in a strange country / China and I've been to many cities” in his poem “Reading Bai Juyi.” A poet from this movement wrote “Let's go / Come on / Let's go / Empty our pockets” at the beginning of one poem. Shig Murao was arrested after selling a copy of a poem from this movement with an obscene description of “saintly motorcyclists.” A poem from this movement mentions the “harlequin speech of suicide” in describing a group “who threw potato salad at CCNY lecturers on Dadaism.” That poem from this movement describes a group that is “starving hysterical naked,” and it begins “I saw the best minds of my generation destroyed by madness.” For 10 points, name this movement of Lawrence Ferlinghetti and Allen Ginsberg.  
ANSWER: **Beat** generation [or **beatniks**]  
*<Literature American - French>*

4. There are this many rings in the SSRI sertraline, which is generic for Zoloft. A ring with this many elements opens via an SN2 mechanism in basic methanol but via SN1 in acidic methanol in a textbook example of regioselectivity. Imipramine and amitriptylene are members of a class of anti-depressants named for having this many rings. An organophosphide with this many rings is a side-product of the Wittig reaction. An alkene reacts with iodomethyl zinc iodide to form a ring with this many elements in the Simmons-Smith reaction. Rings with this many elements are produced in the Corey-Chaykovsky reaction. A ring with this many elements is present in aziridines and epoxides. Rings with this many elements have high angular strain due to the sixty-degree bond angles. For 10 points, name this number of carbons in cyclopropane.  
ANSWER: **three**  
*<Science Chemistry - French>*

5. Juan de Pareja included a full-body self-portrait on the left side of his painting of this scene. In one painting of this scene, Jesus' hand is an almost exact reflection of Adam's hand in Michelangelo's *Creation of Adam*. Giuseppe Cesari was commissioned to paint this scene for the left wall of a chapel but declined to continue after painting the chapel's vault. Two paintings depicting the “martyrdom” and the “inspiration” of the title saint accompany a painting of this scene in the Contarelli chapel. A painting of this scene set in a dark room depicts its characters dressed in stylish contemporary clothing. The title character gestures towards himself and is illuminated with a beam of light in, for 10 points, Caravaggio's version of what scene, in which the title tax collector decides to follow Jesus?  
ANSWER: the **calling** of Saint **Matthew**  
*<Arts Painting - French>*

6. In the 1940s, gangsters in this city regularly met at 11:00 AM on 32nd and Collins to discuss matters relevant to the S&G syndicate. The Kennel Club was one of the many gambling establishments controlled by Al Capone that flourished in this city in the 1930s. An island off the coast of this city was used to host the 1968 and 1972 Republican National Conventions since it allowed protestors to be quarantined on the mainland. An exile community in this city made a type of espresso called cortado its signature drink. An iconic photo taken in April 2000 features federal agent Jim Goldman pointing a machine gun at a child hiding in a closet in this city during the Elián González affair. This city gained 150,000 residents in 1980 as the main destination of the Mariel Boatlift. Little Haiti is located in this city which also has a neighborhood nicknamed Little Havana. For 10 points, name this most populous city in South Florida.  
ANSWER: **Miami** [accept **Miami Beach**]  
*<History American (1945-present) - Bentley>*

7. In a film from this country, a man holding a poodle asks “Even though I'm no better than a beast, don't I have the right to live?” shortly before jumping off a building. A director from this country paid homage to the “Men and Maggots” segment of *Battleship Potemkin* in one of his films that features food bars that the protagonist learns are made out of dead insects. A film from this country contains a long take in which a man fights off tons of thugs in a narrow hallway with a hammer he later uses to pull 15 teeth from another man's mouth. A man who spends 15 years locked in a room sleeps with his daughter in one film from this country's Vengeance Trilogy. Another of its directors set a 2013 film on a train that traverses the globe after a climate catastrophe. For 10 points, name this country home to the directors of *Snowpiercer* and *Oldboy*, Bong Joon-ho and Park Chan-wook.  
ANSWER: **South Korea** [or **Republic of Korea** or **ROK**; prompt on Korea; do not accept **Democratic People's Republic of Korea** or **DPRK**]  
*<Arts Film - Smith>*

8. A character who lives in one of these structures asks, “What will my redeemer be like? … Will he be like me?” One of these structures is compared to a spiderweb in a resolution of an “inexplicable” mystery involving it. A hero is surprised when a character who lives in one of these structures “scarcely defended himself.” Dunraven tells a story in which a king, a slave, and a lion have their faces smashed in while inside one of these structures. “The House of Asterion” is one of these structures, as is the site of the murder of ibn-Hakam al-Bokhari. In a short story, the observation that a book contains no reference to time leads Stephen Albert to conclude that that book is actually the one of these structures legendarily constructed by Ts'ui Pen. For 10 points, name these structures common in the works of Jorge Luis Borges, including in “The Garden of Forking Paths.”  
ANSWER: **labyrinth**s [accept **maze**s, prompt on gardens or houses]  
*<Literature World - French>*

9. Pausanias narrated a story about a famine on Thasos, which started after one of these objects was thrown into the sea after being put on trial for murder. King Ilus of Dardania was blinded after he saw one of these objects fall from the sky. During the Olympic games, some of these objects called *zanes* **(Zahn-nays)** were used to commemorate people who cheated or bribed judges. Its not a body part, but Priam's son Helenus prophesies that Troy will not fall until one of these objects was removed from the city. That object of this type was retrieved by Odysseus and Diomedes and was named in honor of King Pallas. According to Ovid, a woman who used to be one of these objects has a child named Paphos after her creator prayed to Aphrodite for her to come to life. Galatea originally was, for 10 points, what kind of object which the sculptor Pygmalion fell in love with?  
ANSWER: **statue**s [accept **sculpture**s before “sculptor,” prompt afterwards]  
*<RMP Greek/Roman Myth - Hijazi>*

10. Forcing transitions in a quantum harmonic oscillator while in the Lamb-Dicke regime allows one to perform the “resolved sideband” type of this task. One approach to this task, proposed by Claude Cohen-Tannoudji, uses counter-propagating beams to produce a polarization gradient and is named for Sisyphus. A common method of doing this has a limit equal to h-bar times the linewidth over 2 times Boltzmann's constant, and requires a laser to be tuned slightly below the transition frequency to preferentially select atoms. That method of doing this named for the Doppler effect won Steven Chu the 1997 Nobel Physics prize. The “dilution” version of this process can be performed with no moving parts by mixing two isotopes of liquid helium. For 10 points, name this process which can be performed by dunking an object in liquid nitrogen.  
ANSWER: **cooling** [accept obvious equivalents; accept specific types like **Doppler cooling** or **Sisyphus cooling**]  
*<Science Physics - Mitchell>*

11. One ruler of this name built a new capital city that he named for himself on top of an artificial mountain, which he also named for himself. That ruler of this name built the city of Caesarea Maritima to serve as a new port. The last ruler with this name bore the Roman name Marcus Julius Agrippa. A dynasty named for this given name came to power by gaining favor over the Hasmonean Dynasty. The cliffside fortress of Masada, which would later be the site of a mass suicide, was built under a ruler with this name. A ruler of this name and the epithet “the great”, who was succeeded by a man with this name and the epithet “Antipater”, inaugurated a group of people with this name who held titles including Tetrarch of Galilee and Ethnarch of Judea. For 10 points, give this name of a ruler who apocryphally ordered the Massacre of the Innocents in order to kill the infant Jesus.  
ANSWER: **Herod** [accept **Herodian** Dynasty, **Herod** the Great, or **Herod** Antipater]  
*<History European to 1400 - Myers>*

12. One religious leader from this country became known as “the shouting mountain” after a pilgrimage to this country's Southern neighbor on which he claimed to have been resurrected. After surviving an alcohol-induced coma, another man from this country founded a religion that banned alcohol. The Green Corn Ceremony was almost universally celebrated in this country's central region in the 18th century. The Code of Handsome Lake was promulgated by one religious figure from this country. One religious figure from this country established the community of Prophetstown after predicting a solar eclipse and cursing a future leader of this country to die in office. Tenskwatawa was from this country, and Wovoka founded one religion that spread rapidly among the indigenous people of this country. For 10 points, name this country where the Ghost Dance religion spread in the late 1800s among groups like the Paiute and Lakota.  
ANSWER: **United States** of America [accept **America**, **U.S.**A.]  
*<RMP Non-Christian/Bible Religion - Myers>*

13. An “optimal rule” for this quantity was advanced in a 1975 paper by Thomas Sargent and Neil Wallace which advanced a “policy-ineffectiveness proposition” regarding attempts to control its value. This value is represented by “k” in the Cambridge equation, and the “zero maturity” measurement of this quantity tracks strongly with the inflation rate. This quantity is multiplied by velocity to equal the product of average price and quantity of sales in the Fisher equation. The most inclusive measurement of this quantity, as opposed to other standards such as M2, includes small time deposits and savings accounts. Monetarists believe that managing the slow, stable growth of this quantity is the key function of a central bank. For 10 points, name this measurement of the total amount of money in an economy.  
ANSWER: **money supply** [or **supply of money**; prompt on partial answer; prompt on descriptive answers that are not one of those exact phrases such as the amount of money or the quantity of money]  
*<Social Science Economics - Weiner>*

14. This man wrote that the beauty of Kafka is “the purity and beauty of a failure.” In another work, he critiques the “vulgar Marxist conception” of labor, claiming that it “amounts to the exploitation of nature,” as opposed to earlier socialist utopianism. Those essays, along with others like “What is Epic Theater?” appear in an collection of this man's essays edited by and featuring a forward from Hannah Arendt. In another essay, this thinker responded to George Sorel with the essay “Critique of Violence.” The separation of the screen actor from his audience and the aestheticization of politics both feature in an essay by this author about how film and photography have led to the loss of “aura.” For 10 points, name this German author of “Theses on the Philosophy of History” and “The Work of Art in the Age of Mechanical Reproduction.”  
ANSWER: Walter Bendix Schönflies **Benjamin**  
*<RMP Philosophy/Thought - Lucas>*

15. In one proof of this theorem, the inequality **(read slowly)** “3 plus 4 cosine phi plus cosine 2 phi is greater than or equal to zero” is used to show that one function has no zeroes on the line “sigma equals 1.” This theorem follows from applying the Wiener-Ikehara theorem to the Dirichlet **(deer-eesh-LAY)** series for the von Mangoldt function, since it is equivalent to the statement that the Chebyshev function evaluated at *x* is approximately equal to *x*. This theorem, which was first proved independently by Hadamard and de la Vallée Poussin, can be improved by using Gauss's logarithmic integral in place of the function “*x* over log *x*.” This theorem gives an asymptotic expression for the counting function pi of *x*. For 10 points, identify this theorem named for the integers whose distribution it describes, which have exactly two factors.  
ANSWER: **prime number** theorem  
*<Science Math - French>*

16. In a novel set in this country, a filmmaker recalls trying to pick up girls with a song beginning “Oh we all walk ze wibberlee wobberlee walk.” A drunkard in that novel set in this country tells his walnut-growing neighbor about his theory that Adam's punishment was being forced to stay in Eden alone. In another novel, a man in this country avoids arrest because of the roughness of his hands and converses with his illegitimate daughter near a rubbish heap. In this country, a horse with the number seven branded on its leg tramples Yvonne to death after being startled by the murder of the consul Geoffrey Firmin in Malcolm Lowry's novel *Under the Volcano*. In another novel, a lieutenant working for this country's anti-Catholic government hunts down the alcoholic “whiskey priest.” For 10 points, name this setting of Graham Greene's novel *The Power and the Glory*.  
ANSWER: **Mexico** [or **United Mexican States**; or **Estados Unidos Mexicanos**]  
*<Literature British Non-Shakespeare - Morrison>*

17. The Red Squad put down protests in this country with long batons jokingly named “Minto Bars” after their target, activist John Minto. A pension plan in this country was attacked in an advertisement featuring dancing Cossacks dressed in orange clothes, intended to warn against Communism in this country. Protesters on Molesworth Street in this country opposed the presence of a sports team which violated the terms of the Gleneagles Agreement. The Rainbow Warrior blew up in a harbor of this country, where the economy was liberalized under the Rogernomics policy. The 1981 Springbok Tour sparked racial tensions in this country during the tenure of a leader who promoted the Think Big economic strategy, Robert Muldoon. Protests broke out after South Africa's rugby team visited to play, for 10 points, what country's rugby team, the All Blacks, who perform Maori dances before games?  
ANSWER: **New Zealand** [or **Aotearoa**]  
*<History World - Singh>*

18. This author wrote “We have four dead Romans / and five Carthaginians” in his poem “The Quarrel.” The speaker's heart “cries its melancholy at not seeing you” in a sonnet by this author “in which the poet sends his beloved a dove.” This poet wrote “I want to sleep the sleep of the dark apples” in a poem “of the Dark Death,” which he collected alongside several *casidas* and *gacelas* in his Arabic-inspired *Diván del Tamarit*. This poet included a poem in which he “talks on the telephone with his beloved” in his *Sonnets of Dark Love*. In a poem by this author, the speaker declares “I will not see it!” in its section “The Spilled Blood.” That poem lists “arsenic bells and smoke” and a “ring covered with iodine” in a description of an event that occurred “at five in the afternoon.” For 10 points, name this poet of “Lament for the Death of a Bullfighter” who was killed by fascists during the Spanish Civil War.  
ANSWER: Federico Garcia **Lorca** [prompt on Garcia]  
*<Literature European - French>*

19. This composer was inspired by an interview with police beating victim Daniel Hamm in which he said “I had to, like, open the bruise up” to compose a piece for the benefit of the Harlem Six. The story of Noah opens a piece by this composer that features the Pentecostal preacher Brother Walter. Strings play broken chords in “paradiddle” rhythms in a chamber piece by this composer of *Come Out* and *It's Gonna Rain*. An unplugged vibraphone is used to mark sections of another piece by this composer which is based on a cycle of eleven chords. This composer repeated phrases like “New York to Los Angeles” and bits of conversations with Holocaust survivors in one of his string quartets. This composer named many pieces for the phasing technique he pioneered. For 10 points, name this minimalist composer of *Music for 18 Musicians* and *Different Trains*.  
ANSWER: Steve **Reich**  
*<Arts Music - Smith>*

20. Endurobol agonizes proteins responsible for the proliferation of these organelles. A four to one mixture of oleic acid and erucic acid is used to treat a disease caused by a defect in this organelle. Proteins targeted for this organelle have a C-terminal serine-lysine-leucine motif. The inability of this organelle to properly metabolize very long chain fatty acids due to mutations in ABCD1 results in X-linked adrenoleukodystrophy. Like the mitochondria, beta-oxidation in this organelle transfers electrons to oxygen, resulting in the formation of reactive oxygen species, which is broken down by an enzyme exclusively found in this organelle. Catalase carries out the primary function of, for 10 points, what organelle responsible for the breakdown of hydrogen peroxide?  
ANSWER: **peroxisome**  
*<Science Biology - Rao - Pothuraju>*

21. At the end of one story by this author, the protagonist makes lemonade for his grandfather, who annoyed Carl by repeating the same stories about crossing the plains. In this author's Nobel Prize lecture, he declared that he would “roar like a lion” in defense of literature. A mare named Nellie is killed during a difficult labor in one story by this author. That story is found in a collection by this author that centers on a horse named Gabilan that Billy Buck fails to save from strangles. The grocer Lee Chong and the elderly Mack live on the title road of another novel by this author. The twins Cal and Aron are born to Cathy Ames and Adam Trask in one novel by this author. For 10 points, name this author of *The Red Pony*, who wrote novels about California including *Cannery Row* and *East of Eden*.  
ANSWER: John **Steinbeck**  
*<Literature American - Kothari>*

**2019 National All-Star Academic Tournament**

**Round 12 – Bonuses**

1. One sociologist described how one of these businesses would serve differing grades of alcohol to passers-by depending on what image its proprietors wanted to present. For 10 points each:  
[10] The behavior of workers at one of which businesses in the Hebrides inspired that sociologist to develop the dramaturgical model of social interaction?  
ANSWER: tourist **hotel**s  
[10] This sociologist developed his dramaturgical model based on his fieldwork in the Hebrides and his study of professions like medicine. This sociologist laid out that theory in his groundbreaking text *The Presentation of Self in Everyday Life*.  
ANSWER: Erving **Goffman**  
[10] In one chapter of *The Presentation of Self in Everyday Life*, Goffman interprets these events as performative. Exploitative practices surrounding the planning of these ceremonies were exposed by Jessica Mitford in *The American Way of Death*.  
ANSWER: **funerals** [accept synomyms like **burials** or **wakes**]  
*<Social Science Sociology - Myers>*

2. This protein complexes with aggrecan to create huge aggregates that are sometimes larger than bacterial cells. For 10 points each:  
[10] Name this protein, which, unlike other GAGs, does not contain sulfur and is formed in the plasma membrane. Injections of this protein are used to help treat knee osteoarthritis.  
ANSWER: **hyalouranan** [or **hyalouranic acid**; accept **HA**, **sodium hyaluronate**, **hylan G**, **hylan G-F20**, **Synvisc**, **Nuflexxa**, **Supartz**, **Orthovisc**, **Hyalgan**, **Euflexxa**]  
[10] Hyalouranan-aggrecan aggregates are found in the articular form of this connective tissue, which is typically heavily comprised of collagen. This tissue serves as shock absorbers at joints.  
ANSWER: articular **cartilage**  
[10] An enzyme that breaks down hyalouranan is released by this structure found inside sperm cells, whose namesake reaction breaks the membrane that surround egg cells so that fertilization can occur. These organelles are derived from Golgi bodies.  
ANSWER: **acrosome**s  
*<Science Biology - Shanmugam>*

3. In *Bodies that Matter*, Judith Butler proposed a “heterosexual” form of this concept. For 10 points each:  
[10] Name this concept whose cultural form was proposed by Antonio Gramsci, who theorized it as a form of control over culture by the ruling class that served to legitimize their worldview and create false consciousness.  
ANSWER: **hegemony**  
[10] Butler was criticized for her “teasing, exasperating” writing style in the essay “The Professor of Parody,” which was written by this thinker. This thinker outlined seven criteria of female objectification in her book *Sex and Social Justice*. This thinker examined the virtue ethics of ancient Greeks in the book *The Fragility of Goodness*.  
ANSWER: Martha **Nussbaum** [accept Martha **Craven**]  
[10] In *Parting Ways*, Butler critiqued this movement, arguing that this movement legitmizes state violence and racism. This nationalist movement was founded in part by Theodor Herzl who advocated for a Jewish state in historical Israel.  
ANSWER: **Zionism** [accept word forms; prompt on Jewish nationalism or similar answers]  
*<RMP Philosophy/Thought - McLain>*

4. Lewis Hine took a series of photographs of this practice, including one of “breaker boys” in a Pennsylvania coal mine, that turned public opinion against it. For 10 points each:  
[10] Name this activity that was attacked by the Keating-Owen act and opposed by a march to Theodore Roosevelt's summer home organized by Mother Jones in which marchers held signs reading “we want time to play”.  
ANSWER: **child labor** [accept equivalents]  
[10] The Keating-Owen act lost much of its power in this case, in which a North Carolina father sued after his son was prohibited from working in a cotton mill.  
ANSWER: ***Hammer v. Dagenhart*** [accept either]  
[10] *Hammer* is considered part of a business-friendly era of jurisprudence named for this 1905 Supreme Court case in which a state law limiting bakers' work hours was struck down.  
ANSWER: ***Lochner*** *v. New York*  
*<History American (1865-1945) - Myers>*

5. A Renaissance painting reimagines this artist's lost work *The Calumny*, which shows King Midas extending his hand towards Slander as an innocent man is dragged towards him. For 10 points each:  
[10] Name this artist who, along with Zeuxis, was the foremost painter of Ancient Greece. Raphael may have painted himself as this artist in *The School of Athens*, and this artist's few known works include the *Aphrodite Anadyomene*.  
ANSWER: **Apelles** of Kos  
[10] This Renaissance artist painted that *Calumny of Apelles*, which reuses a similar figure to the female nude at the centre of his *Birth of Venus*. He also painted *La Primavera*.  
ANSWER: Sandro **Botticelli** [or Alessandro di Mariano di Vanni **Filipepi**]  
[10] In one work, Giovanni Tiepolo painted this man and Campaspe in the studio of Apelles. A large banner floats in the air in a Danube School painting titled for this man.  
ANSWER: **Alexander** the Great [or **Alexander** III of Macedon]  
*<Arts Painting - Krol>*

6. In this novel, a teacher on his deathbed tells another teacher that “It doesn't matter anymore. Just do the best you can. But it won't matter.” For 10 points each:  
[10] Name this Ernest J. Gaines novel in which Aunt Lou asks the schoolteacher Grant Wiggins to change Jefferson Henry from a “hog” to a “man” before Jefferson's execution by electric chair.  
ANSWER: *A* ***Lesson Before Dying***  
[10] Ernest J. Gaines presented the story of Miss Jane Pittman as this type of book. A book of this type named for Malcolm X was compiled by the journalist Alex Haley.  
ANSWER: **autobiography** [prompt on memoir; prompt on biography]  
[10] *A Lesson Before Dying* and *The Autobiography of Miss Jane Pittman* are both set in this US state. Dave Eggers set his novel *Zeitoun* in the aftermath of an event in this state.  
ANSWER: **Louisiana**  
*<Literature American - Smith>*

7. The beginning of the *Kojiki* describes the world as one of these animals floating in the water before Izanami and Izanagi are tasked with giving the earth its shape. For 10 points each:  
[10] Identify these animals, one of which has its bones crushed to dust after failing to retrieve a monkey's liver for a certain god.  
ANSWER: **jellyfish**  
[10] The aforementioned god is this dragon, a Shinto kami of the sea. His daughter, Toyotama-hime, married the hunter Hoori while the latter was trying to a find a new hook for his brother Hoderi.  
ANSWER: **Ryujin** [accept **Watatsumi**]  
[10] In some legends, Hoori and Toyotama-hime are grandparents of the first holder of this position, Jimmu, who consolidated his rule with the help of the three-legged crow Yatagarasu. Modern holders of this position including Akihito occupy the Chrysanthemum throne.  
ANSWER: **Emperor** of Japan  
*<RMP Non-Greek/Roman Myth - Hijazi>*

8. It can be shown from the Second Law of Thermodynamics that a process involving a single one of these systems cannot produce any work, since the entropy change of such a process would be negative. For 10 points each:  
[10] Name this type of system. Large air masses in the atmosphere can act as these systems, which can supply large amounts of heat without changing their temperature.  
ANSWER: **thermal reservoir** [accept **heat bath**, **heat reservoir**, or **thermal bath**]  
[10] This formalism describes a thermodynamic system in thermal equilibrium with a thermal reservoir at a fixed temperature. In this formalism, the average pressure equals the negative partial derivative of the Helmholtz free energy with respect to the volume.  
ANSWER: **canonical ensemble** [do not accept or prompt on “microcanonical ensemble” or “grand canonical ensemble”]  
[10] In addition to temperature and volume, this other property is constant in the canonical ensemble. This extensive property equals the number of moles of substance times the Avogadro constant.  
ANSWER: particle **number** [accept equivalents like the **number** of particles, prompt on N]  
*<Science Physics - Rombro>*

9. In his book *Socialist Empire*, Louis Baudin argues that this empire established a proto-Stalinist system that systematically dehumanized its subjects. For 10 points each,  
[10] Name this empire that practiced mass deportations of groups like the Wanka and Cayambe and built communal granaries to store foods like *chuno*.  
ANSWER: **Inca** Empire [accept **Tawantinsuyu**]  
[10] Another massive Inca public works project involved the building of these structures, which crossed rivers using massive cable bridges and were serviced by inns called *tampu*. These structures were used by conscripted runners called *chaski*.  
ANSWER: **road**s  
[10] The Inca Empire's government was dominated by these familial organizations founded upon each emperor's death, which administrated his properties, controlled private armies, and were a frequent way for royal women to exert influence over the empire.  
ANSWER: **panaqa**  
*<History World - Myers>*

10. This long prose poem takes its epigraphs from and has its structure modeled on the medieval epic *Y Gododdin*, in which the warriors of a Welsh kingdom have a massive feast and subsequently die in battle. For 10 points each,  
[10] Name this poem about David Jones' experiences in World War I, in which Private John Ball sees much of his regiment die at Mametz Wood.  
ANSWER: ***In Parenthesis***  
[10] This Middle Welsh prose collection was first published in full by Lady Charlotte Guest. This collection is the main source of myths about the legendary figures Pwyll, Pryderi, and Taliesin.  
ANSWER: **Mabinogion** [accept Four Branches of the **Mabinogi**]  
[10] This author discussed medieval Welsh literature in his lecture “English and Welsh,” which was included in *The Monsters and the Critics*. He borrowed the title of the Welsh *Red Book of Hergest* for the fictional *Red Book of Westmarch*, which was written by hobbits.  
ANSWER: J. R. R. **Tolkien**  
*<Literature British Non-Shakespeare - French>*

11. One president of this institution, Charles Grandison Finney, brought with him a “Great Tent” to the 1848 Free Soil and Liberty conventions in Ohio where abolitionist speeches were given. For 10 points each:  
[10] Identify this first co-educational college in the United States.  
ANSWER: **Oberlin** College [or **Oberlin** Collegiate Institute]  
[10] Earlier in his career, Finney led revivals in Rochester, New York as part of this period during the early 19th century that produced the “burned-over district.”  
ANSWER: **Second Great Awakening**  
[10] Oberlin received a large grant from Charles Hall, who developed an inexpensive method for producing this product. In a 1945 decision, Judge Learned Hand ruled that a company that had a monopoly over production of this good was subject to antitrust laws.  
ANSWER: **aluminum** [the company was Alcoa]  
*<History American (pre-1865) - Bentley>*

12. Law professor John Pfaff has argued that overreach from these people has been the largest contributor to the growing prison population in the US. For 10 points each:  
[10] Identify these legal officials who have the power to offer plea bargains. They also decide what charges to press for.  
ANSWER: **prosecutor**s [or **District Attorney**s; or **DA**s; or **state's attorney**; or **US attorney**]  
[10] This *New York Times Magazine* journalist and co-host of the Slate Political Gabfest podcast explored prosecutorial overreach in her 2019 book *Charged*.  
ANSWER: Emily **Bazelon**  
[10] In an earlier book, Bazelon examined the culture of this title practice, expanding on a story she wrote about how this practice affected a teen named Phoebe Prince. The group STOMP Out agitates against this practice.  
ANSWER: **bullying** [or **cyberbullying**]  
*<Current Events US - Bentley>*

13. This piece includes odd time signatures such as 1.5/4 **(“one point five four”)** and 2.5/4 **(“two point five four”)** in the movement based on “Lord Melbourne.” For 10 points each:  
[10] Name this piece for wind band dedicated to “the old folksingers who sang so sweetly to me.” Its six movements are based on folk songs collected in a county in east England.  
ANSWER: ***Lincolnshire Posy***  
[10] *Lincolnshire Posy* is the magnum opus of this whip collector who used “louden” instead of “crescendo” so he could write his scores entirely in English. This Australian ranked himself the ninth best composer ever.  
ANSWER: Percy Aldrige **Grainger**  
[10] William Barton and Mark Atkins are players of this Australian instrument, sometimes described as a “drone pipe.” Some South Eastern Aborigines have a taboo on non-indigenous women even touching this instrument, which can be up to 10 feet long.  
ANSWER: **didgeridoo** [or **didjeridu**]  
*<Arts Music - Smith>*

14. This organization, which was formally named “unity or death”, may have plotted the assassination of the liberal King Alexander and his wife, Draga. For 10 points each:  
[10] Name this organization that was supported by Alexander's successor as de facto leader, Prince Alexander the Unifier. This organization opposed the governorship of Oskar Potiorek.  
ANSWER: **Black Hand**  
[10] This leader of the Black Hand, an army officer nicknamed for his “bullish” appearance, is often held responsible for the beginning of World War I.  
ANSWER: Dragutin **Dimitrijevic** [accept **Apis**]  
[10] The Black Hand's most famous action was the assassination of this Archduke, who was the heir to the Austrian throne before he was killed in Sarajevo.  
ANSWER: **Franz Ferdinand** [prompt on Franz]  
*<History European 1914-present - Myers>*

15. Critic Charles Augstin Sainte-Beuve's early infatuation with this author morphed into an infatuation and affair with his wife Adele Foucher. For 10 points each:  
[10] Name this author. Sainte-Beuve's diary contains a remark that the popularity of this author's *Les Misérables* was “proof that the public's taste was really sick.”  
ANSWER: Victor **Hugo**  
[10] Sainte-Beuve was silent on this Hugo novel, whose memorable scenes include a fight between Gilliatt and an octopus. It is dedicated to the island of Guernsey on which it was written.  
ANSWER: *The* ***Toilers of the Sea*** [or *Les* ***Travailleurs de la mer***]  
[10] Sainte-Beuve asserted that works in this category are written in “a style new without neologism” that is “easily contemporary with all time” in an essay arguing for a new definition. Italo Calvino said that a book in this category will “never exhaust all it has to say” in one of fourteen definitions written to answer the question: *Why read [these works]?*  
ANSWER: **classic**s [or **classic** works]  
*<Literature European - Smith>*

16. Charles C. Ebbets was credited as the likely creator of a photograph of this action in 2003. For 10 points each:  
[10] Identify this action which is performed by eleven ironworkers sitting on top of a girder for the Rockefeller Center in that 1932 photo.  
ANSWER: **eating** lunch [accept ***Lunch*** *atop a Skyscraper* or *New York Construction Workers* ***Lunching*** *on a Crossbeam*; or clear equivalents]  
[10] That photo was once credited to Lewis Hine, who taught this photographer of *Wall Street*. His other photos include *The White Fence* and one of an old woman wearing a sign reading “Blind.”  
ANSWER: Paul **Strand**  
[10] Paul Strand's *Wall Street* signals a turn to modernism from pictorialism, which was promoted by this American group. Members of this American counterpart to The Linked Ring included Eva Watson-Schutze, Gertrude Kasebier, and Edward Steichen.  
ANSWER: **Photo-Secession**ism  
*<Arts Photography - Smith>*

17. In this conformation, hydrogens are classified as either “axial” or “equatorial” depending on whether they are parallel or perpendicular to the plane of the ring. For 10 points each:  
[10] Name this conformation. This conformation is more stable than its alternatives because it lacks the destabilizing “flagpole” interactions.  
ANSWER: **chair** conformation  
[10] The chair and boat conformations are two conformations of this six-membered cycloalkane with formula C6H12.  
ANSWER: **cyclohexane**  
[10] Although the boat conformation is unstable, both the chair and boat conformations lack this type of strain. Cyclopropane and other compounds with a large amount of this type of strain often possess “banana bonds.”  
ANSWER: **angle** strain [or **angular** strain; prompt on ring strain]  
*<Science Chemistry - French>*

18. “Poems for” this person, including W.S. Merwin's “The Fence,” make up the anthology *Blood & Tears*. For 10 points each:  
[10] Name this man. Fred Phelps and followers picket this man's funeral in a verbatim theater piece by the Tectonic Theater Project's Moises Kaufman.  
ANSWER: Matthew **Shepard** [prompt on Matt; prompt on Matthew]  
[10] In the Tectonic Theater Project's *The Laramie Project*, Jedidiah Schulz decides to perform a monologue from this play despite his parent's disapproval. Louis Ironson learns of his lover Prior Walter's AIDS diagnosis near the beginning of this Tony Kushner play.  
ANSWER: ***Angels in America****: A Gay Fantasia on National Themes*  
[10] This Annie Proulx story, also set in Wyoming, was published a year before the murder of Matthew Shepard. In this story, Jack Twist and Ennis del Mar have a homosexual affair while working as cowboys.  
ANSWER: “**Brokeback Mountain**”  
*<Literature American - Smith>*

19. The Samaritans harassed a group of men attempting to build this structure under the direction of by Zerubbabel and Jeshua the High Priest. For 10 points each:  
[10] Name this structure built during the reign of Darius the Great after Artaxerxes tried to prevent its completion. This was the main place of worship in Jerusalem during the time of Jesus.  
ANSWER: the **Second Temple** [prompt on the Temple; do not accept or prompt on the “First Temple” or “Solomon's Temple”]  
[10] A source for the construction of the Second Temple is this teacher's namesake book that was often paired with Book of Nehemiah until the 9th century. In the book, this man encamps with the Judean exiles near the Ahava River before returning to Jerusalem from Babylon.  
ANSWER: **Ezra**  
[10] Both Ezra and Nehemiah warned the post-exilic Israelites against engaging in this practice, which is expressly forbidden according to Deuteronomy 7:3, for the fear of this practice leading them to turn away from worshiping Yahweh.  
ANSWER: **intermarriage** [accept clear-knowledge equivalents]  
*<RMP Christian/Bible Religion - Hijazi>*

20. If the Bellman-Ford algorithm shortens a path length during its vth relaxation, then one of these features exists in a graph. For 10 points each:  
[10] Name or describe these features of a graph, which guarantee no shortest path between two points can exist in a weighted, directed, connected graph.  
ANSWER: **negative weight cycles** [accept descriptive answers describing a **cycle** whose total edge weight is **negative**; do not prompt on or accept **negative edge weight**s or bare answers of **cycle**s]  
[10] This dynamic programming algorithm, which runs in O(V3) **(big oh of vee cubed)** time, simultaneously finds the shortest path between all pairs of points in a graph and reports negative edge weights if any values on the main diagonal of its output matrix is negative.  
ANSWER: **Floyd**-Warshall algorithm [or the **WFI** algorithm; or the **Roy-Floyd** algorithm; or the **Roy-Warshall** algorithm]  
[10] This algorithm named for a Dutch computer scientist computes the shortest path between two points, but fails if any of the edge weights is negative, even if there are no negative edge weight cycles.  
ANSWER: **Dijkstra's** algorithm  
*<Science Computer Science - Shanmugam>*

21. The poem “Thirty Years” was published with a book in this genre by the Cuban poet Juan Francisco Manzano. For 10 points each:  
[10] Name this genre. James Albert, also known as Ukawsaw Gronniosaw, wrote the first of these texts to be published in English.  
ANSWER: **slave narrative** [prompt on autobiography]  
[10] Likely the most famous slave narrative is the autobiography by this escaped slave, who later participated in the Seneca Falls convention and edited the *North Star*.  
ANSWER: Frederick **Douglass**  
[10] In contrast to Frederick Douglass, George Fitzhugh argued in favor of slavery, comparing abolitionism to this activity. The word for this crime derives from the name of a Caribbean tribe that regularly performed this activity, according to Spanish conquistadors.  
ANSWER: **cannibalism** [accept **eating people**]  
*<History American (pre-1865) - French>*