**2019 National All-Star Academic Tournament**

**Round 17 – Tossups**

1. In a novel by this author, Mangogul has a dream in which Temple of the System-Builders in the land of Hypothesis is destroyed by a giant named Experience. In that novel by this author, a genie presents a sultan with a ring that can make women's genitals talk about their sexual experiences. In another novel by this author, the title character tells his master the story of Madame de la Pommeraye, who tricks the Marquis des Arcis into falling in love with a prostitute. The merits of French and Italian music are debated in a novel by this author, which is framed as a dialogue in the Café de la Regénce with the eccentric relative of a composer. In a novel by this author of *The Indiscreet Jewels* and *Rameau's Nephew*, a valet believes the future is written on a Great Scroll in the sky. For 10 points, name this author of *Jacques the Fatalist*, who worked with Jean D'Alembert to edit the *Encyclopédie*.
ANSWER: Denis **Diderot**
*<Literature European - Kothari>*

2. In *Provocations*, Camille Paglia claims to always begin the semester with this musician's shortened form of a ballad whose speaker has “decided to sleep alone all my life” on the advice of a mother who wields a silver dagger. This musician sang that “the last and final moment is yours” and “agony is your triumph” to “Nicola and Bart” over music by Ennio Morricone; that song appears on a concept album about Sacco and Vanzetti. After Arlo Guthrie's appearance on stage at one event, this singer recorded the best-known version of “Joe Hill.” Like Mary Travers, this white woman sang at an August 1963 event that also featured Mahalia Jackson and Marian Anderson. This musician wished the audience a 1 AM “good morning” when closing the first night of Woodstock. For 10 points, name this folk singer who led the crowd in “We Shall Overcome” at the March on Washington and often advocated for civil rights alongside Bob Dylan.
ANSWER: Joan **Baez** [or Joan Chandos **Baez**]
*<Arts Misc Arts - Smith>*

3. Lázaro Cárdenas was the only world leader to protest this event when it was debated in the League of Nations. A referendum that brought about this event used ballot papers with “yes” in a larger font and centered, with “no” hidden in a corner. An agreement signed at Berchtesgarden was supposed to accomplish this event before Kurt von Schuschnigg repudiated it. The murder of Engelbert Dollfuss was part of an attempt to bring about this event. This event took place after the president of its target country refused to appoint Arthur Seyss-Inquart as chancellor. The Mauthausen death camp was established on territory annexed during this event, after which Jews were attacked in Linz and Salzburg on Kristallnacht. For 10 points, name this 1938 event that resulted in the merger of Austria with Nazi Germany.
ANSWER: **Anschluss** [prompt on descriptive answers related to the union of Austria with Germany]
*<History European 1914-present - Myers>*

4. Edwin Bryant claimed that Megasthenes' description of the worship of Heracles was actually the worship of this deity. When a child with extra arms and eyes was placed on this deity's lap, all the extra body parts vanished. This deity won a wrestling match against an elephant before taking on two champion wrestlers with his brother. The *Rasa lila* are metaphorical poems concerning the love between this figure and Radha. In one story, this god demonstrated his superiority over Vedic deities by holding a mountain to protect a village from Indra's rain. As an infant, this god sucked the life out of the asura Putana as she attempted to poison him with her milk. While serving as a charioteer in the Kurukshetra War, this god stated “I am become death, the destroyer of worlds.” For ten points, name this avatar of Vishnu who served as Arjuna's in the Mahabharata.
ANSWER: **Krishna** [prompt on Vishnu]
*<RMP Non-Greek/Roman Myth - Jankov>*

5. One paraplegic king most famously depicted using this material traditionally has his legs replaced by mudfish fins in iconography. Bernard Fagg discovered a theory of proportion that emphasized the head after excavating artifacts in this material. Sculptures in this material had holes drilled in them to attach facial hair. Leo Frobenius excavated a “head of the sea god” made of this material. Captain John Ambrose led a “punitive expedition” that looted artifacts in this material. This material was imported into Africa in the form of *manilla* rings used as currency. A group of sculptures in this material were looted from the Edo people to pay back debts incurred by the British army in capturing their capital. Along with ivory, this material was used on altars for rulers called *obas*. For 10 points, name this metal alloy used to depict the Benin people's kings.
ANSWER: **bronze** [accept **brass**, prompt on **copper**]
*<History World - Myers>*

6. A blend of juices called “tiger's milk” is a side product of making one dish that originated in this country. Chinese immigrants known as *tusán* hybridized their cuisine with this country's cuisine to create the *chifa* cooking style. A type of blackened rotisserie chicken known as *pollo a la brasa* was first made in this country. Like a northern neighbor, lúcuma fruits are cultivated and made into ice cream and milkshakes in this country. A dish from this modern-day country and its northern neighbor that is centered around citrus-cured fish, known as *ceviche*, may have evolved from an earlier dish prepared by the Moche people. Quinoa was originally discovered in this country, which, like Bolivia, produces large amounts of it. The title of “gastronomic capital of the Americas” is often given to, for 10 points, what country's capital of Lima?
ANSWER: **Peru**
*<Geography World - Shanmugam>*

7. The so-called “father of Australian music” wrote a book of  *Recollections of* this author after their first collaboration. The last section of Heinrich Heine's *Romanzero* is named in tribute to a collection by this poet whose best-known poem was written to fit the melody of a piece sung to the “Sovereign of the Universe.” His previously written “I speak not -- I trace not -- I breathe not thy name” was added to a collection made in collaboration with Isaac Nathan. In one of this writer's poems, “idols are broke in the temple of Baal” after “the might of the Gentile ... Hath melted like snow” because of the Angel of Death. “A heart whose love is innocent” is praised in a poem by this author whose subject is compared to “the night / Of cloudless climes and starry skies.” For 10 points, name this poet whose *Hebrew Melodies* contains “The Destruction of Sennacherib” and “She Walks in Beauty.”
ANSWER: George **Gordon**, Lord **Byron** [accept either underlined portion]
*<Literature British Non-Shakespeare - Smith>*

8. A parameter which is equal to 7/9 of the mean free path of this process is known as the radiation length. Along with bremsstrahlung, this is the primary process that produces electromagnetic showers in the CMS experiment. Virtual examples of this process cause vacuum polarization. The cross section of this process is proportional to the square of the atomic number according to a formula developed by Bethe **(Bay-ta)** and Heitler. Due to conservation of energy, the minimum energy required for this process to occur is 2.044 MeV in the electron field and 1.022 MeV in the nuclear field. Because it would violate conservation of energy and momentum, this process cannot occur in vacuum. For 10 points, name this process in which a high-energy photon interacting with matter produces an electron and a positron.
ANSWER: **pair production** [prompt on “production of an electron and positron” before read. prompt on “production of a particle and its antiparticle”]
*<Science Physics - Rombro>*

9. One section of this book argues that people promote unselfishness paradoxically out of egoism, and that “If you have a virtue...you are its victim!” This book argues that only four men in its century had mastered prose, including Ralph Waldo Emerson. Poems like “Accidentally a Seducer” and “Star Morality” make up the prelude to this book, and Book Three of this work opens by discussing people viewing the Buddha's shadow in a cave. A man with a lantern wanders through a marketplace decrying himself and everyone around him as murderers in this book's section “The Madman.” Later in this book, a demon tells a man that he will live his life repeatedly, and in another section, its author determines to embrace *amor fati*. This book draws its title from a Provencal term for music. For 10 points, name this book by Friedrich Nietzsche where he introduced the phrases “eternal recurrence” and “God is Dead.”
ANSWER: *The* ***Gay Science*** [or *The* ***Joyful Wisdom*** or *Die* ***fröhliche Wissenschaft***]
*<RMP Philosophy/Thought - Lucas>*

10. Results from a form of this technique are interpreted using SEQUEST. A procedure to prepare molecules for this technique uses a matrix including sinapinic acid. Post-source decay lowers resolution in a form of this technique, which uses delayed extraction and includes a reflectron in the setup to improve resolution. Collision-induced dissociation is caused by an device represented by a lowercase q in the triple quadrupole setup used in a form of this technique. A multiply-charging procedure to prepare molecules for this technique can form a Taylor cone. The highest peak in this technique's readout is called the base peak. The “tandem” form of this technique is used to identify proteins and can use time-of-flight analyzers during one or both stages of operation. MALDI and ESI ionize the inputs to, for 10 points, what technique, which separates molecules by their mass-to-charge ratio?
ANSWER: tandem **mass spec**trometry [or tandem **mass spec**troscopy; or tandem **MS**; or **MALDI-TOF** mass spectroscopy/spectrometry]
*<Science Chemistry - Shanmugam>*

11. A man posing as Robert Gonzalez tried to infiltrate this place but raised suspicions due to his fancy car. Jayne Docherty's book on “Learning Lessons from [this place]” explained why anti-bank robbery tactics such as continuously playing audio of rabbits being murdered did not work on its “value-rational” inhabitants. Inhabitants of this place financed themselves by running a gun shop called “the Mag Bag”. Most of the population at this place were members of a group that split from Victor Houteff and were put on edge by an editorial in the *Tribune-Herald* titled “The Sinful Messiah.” The leader at this location took several “spiritual wives”, some as young as 12 years old. The 74 people killed at this place in a raid by the FBI was a motivation for the Oklahoma City bombing. For 10 points, name this city in Texas, the site of a 1993 siege of David Koresh and his Branch Davidians.
ANSWER: **Waco**, Texas [or the **Mount Carmel Center**; accept the Branch Davidian complex at **Waco**]
*<History American (1945-present) - Bentley>*

12. Ed Ruscha remarked that the angle of view in his painting *Los Angeles County Museum of Art on Fire* is based on a painting of this woman. A man in red holds this woman as she turns away from a king on a throne in a Benjamin West painting commissioned by John Boydell. This woman leans against a fallen branch and grasps at the leaves of a tree in a painting by Alexandre Cabanel. One artist used purple loose-strife to represent the “dead men's fingers” that this woman was holding when she died. That artist worked on his painting of this woman both near the Hogsmill River and in his studio, where he made his model Elizabeth Siddal sit in a cold bath for hours. That and other paintings of this woman draws most of its imagery from a literary passage that begins, “a willow grows aslant a brook.” For 10 points, a painting by John Everett Millais depicts the drowning of what Shakespeare character?
ANSWER: **Ophelia**
*<Arts Painting - Husar>*

13. A 48-term equation known as TEOS-10 uses the absolute form of this quantity and is the current standard for calculating thermodynamic properties related to this quantity. That equation replaced titration with silver nitrate to determine a related quantity in Mohr's method. The practical value of this quantity is calculated as the ratio of the electrical conductivity of a reference sample to that of a potassium chloride standard, and this quantity can also be quoted in units of grams per kilogram of solution or parts per thousand, where the global average is 35 ppt. Since endorheic lakes do not allow outflow, they have high values of this quantity. Along with temperature, this quantity drives the thermohaline circulation. For 10 points, name this quantity which is higher in sea water than in fresh water.
ANSWER: **salinity** [accept equivalents, such as **salt concentration** or the **amount of salt** dissolved in water]
*<Science Earth Science - Rombro>*

14. Modern research into this ability was springboarded by a seminal 1975 review article by Hadyn Ellis. Pools of units called SIUs, FRUs, and NRUs are connected by nodes called PINs in Burton et al.'s IAC model of this ability. Vanderbilt psychologist Isabel Gauthier has developed objects like Ziggerins and Greebles to help in testing this ability. This ability, which is mediated by a namesake area of the fusiform gyrus, is sensitive to certain manipulations in a phenomenon dubbed the Thatcher effect. A man known as “Dr. P” suffers from an impairment of this ability, a condition known as prosopagnosia, in the title essay of Oliver Sacks's collection *The Man Who Mistook His Wife for a Hat*. For 10 points, name this ability to identify someone by looking at the features of a certain body part, such as the nose and eyes.
ANSWER: **facial recognition** [prompt on object recognition; accept any answer indicating the ability to perceive or differentiate faces]
*<Social Science Psychology - Morrison>*

15. W. S. Merwin described “the love of one woman” and “the shamelessness of men” in a poem titled for “the Anniversary” of one of these events. The accordion-format book *Nox* was written by Anne Carson in reaction to one of these events. In a poem titled for one of these events, the speaker “has a hamburger and a malted and buy[s] / an ugly NEW WORLD WRITING.” That poem concludes “everyone and I stopped breathing” after “she whispered a song along the keyboard / to Mal Waldron” and is by Frank O'Hara. In another poem, one of these events is described as “full of Flowers” after twenty-eight lines that all begin “with your eyes.” That poem begins “Strange now to think of you… while I walk on the sunny pavement of Greenwich Village” and is dedicated to the poet's mother Naomi. For 10 points, name these events, one of which inspired Allen Ginsberg's “Kaddish.”
ANSWER: **death** [accept more specific answers such as **my death**, a **brother's death**, a **mother’s death**, **Naomi Ginsberg’s death**, “The **Day Lady Died**”, etc.]
*<Literature American - French>*

16. This man patronized the photographer Edward S. Curtis but refused to be publicly photographed due to his severe rosacea. Several of this man's associates blamed his death on the pressure of testifying before the Pujo committee. This man was accused of profiteering on the sale of rifles to the Union Army in the Hall Carbine Affair. This man refused to supply additional funds to Tesla's Wardenclyffe tower, leading to the tower being mothballed. The Northern Securities case broke up a railway conglomerate formed by this man, E. H. Harriman and James J. Hill. This man formed the first billion dollar corporation, U.S. Steel, after buying out Andrew Carnegie. For 10 points, name this American financier who helped to overcome the Panic of 1907, the namesake of a major investment bank that merged with Chase.
ANSWER: J(ohn) P(ierpoint) **Morgan**
*<History American (1865-1945) - Jackson>*

17. A piece by this composer that quotes the Hallelujah Chorus in its final *Presto* movement was partly inspired by the Walpurgis night from *Faust*. That piece by this composer opens *Allegro moderato ma con fuoco* in the key of E-flat major and contains a celebrated *Allegro leggierissimo* *scherzo*. A concerto by this composer uses the allegro, high theme **(read slowly)** “long B B long B G E long E B” to open the *Allegro molto appassionato* first movement, which is unusually not introduced by an orchestral tutti. This creator of 12 string symphonies claimed that aforementioned theme gave him “no peace.” At age 16, he wrote a piece played by a double quartet; part of that string octet is sometimes used in a symphony he wrote for the birthday of his sister Fanny. For 10 points, name this composer of an E minor violin concerto, also known for the wedding march from his incidental music to *A Midsummer Night's Dream*.
ANSWER: (Jakob Ludwig) Felix **Mendelssohn** Bartholdy
*<Arts Music - Smith>*

18. In one story by this author, the narrator is described throughout as a “shrewd youth” and threatens to beat a man with his cudgel unless he tells him the title person's location. In another story by this author, books by Plato, Confucius, and “various Hindoo sages” are thrown into a swamp as a foundation for a bridge that is crossed by the narrator and Mr. Smooth-it-away. Robin boos an elderly relative while he is being tarred and feathered in one story by this author. The protagonist goes on a night journey with a man in the likeness of the narrator's grandfather, who had whipped a Quaker woman, in one story by this author of “My Kinsman, Major Molineux” and “The Celestial Railroad”. This author wrote a story in which “no hopeful verse” is engraved on a man's tombstone after Deacon Gookin and Goody Cloyse go with him and his wife, Faith, into a satanic initiation ceremony. For 10 points, name this author of “Young Goodman Brown”.
ANSWER: Nathaniel **Hawthorne**
*<Literature American - Myers>*

19. If one of these objects is fixed under multiplication by a non-integer constant, then the corresponding elliptic curve has complex multiplication. The poles of an elliptic function form one of these objects in the complex plane. Babai's rounding algorithm can be used to find the shortest vector in one of these objects. A torus is isomorphic to the complex plane modulo one of these objects. As groups, these objects are all isomorphic to a direct product of the integers. One of these objects was used to solve the sphere-packing problem in 24 dimensions and is named for Leech. Miller indices are used to represent the Bravais variety of these objects, which are used to model crystals. These objects are discrete sets of points that are periodic in every direction. For 10 points, name these objects, which also name a type of “point” with integer coordinates in the Cartesian plane.
ANSWER: **lattice**s
*<Science Math - French>*

20. *Description acceptable*. A name for the location of this event is also a pun on two other words meaning “storm” and “end.” This event occurred at a place called *Yam Suph*. Immediately after this event, a woman led a choir of women in a song using timbrels. Besides the destruction of Sihon and Og, Rahab mentions this event as striking fear into the hearts of her people. The forces opposing the participants of this event were slowed down by their chariot wheels being clogged up. The Septuagint mistranslated the location of this event from a place originally described by the word “reeds.” Pillars of fire and cloud and a “strong east wind” aided the participants of event. Immediately before this event, a man was ordered to lift his staff instead of crying out to God. Exodus 14 is a retelling of, for 10 points, what event in which the Israelites traversed a body of water to escape the Pharaoh?
ANSWER: **cross**ing the **Red Sea** [or ***Kriat Yam Suph*** until “*Yam Suph*”; accept Sea of **Reeds** in place of Red Sea until mentioned; accept reasonable equivalents of “crossing”]
*<RMP Christian/Bible Religion - Suh>*

21. A poem about an animal in this location known as the Fastitocalon, representing the Devil, is often paired with allegorical poems about a panther and a partridge. The opening line of a poem about a man in this place was rendered as “May I for my own self song's truth reckon” for the collection *Ripostes*. Ezra Pound made a translation of a 124-line poem set in this sort of place that ends with the single-word sentence “Amen.” In a flyting scene, the protagonist of a poem boasts how he killed nine monsters in this location. Unferth attacks that protagonist for his poor performance in a contest in this location. The kennings “swan-road” and “whale-road” refer to this place, the setting of a contest between Beowulf and Breca. For 10 points, Beowulf witnesses Shield Sheafson's body being sent to what location to be burned after being placed in a ship?
ANSWER: the **sea** [or **ocean**]
*<Literature British Non-Shakespeare - Keyal>*

**2019 National All-Star Academic Tournament**

**Round 17 – Bonuses**

1. The British *Punch* magazine was based off a French satirical broadsheet named after these events, which published political cartoons by Honoré Daumier. For 10 points each:
[10] Name this form of public shaming, in which the subject is forced to ride on a donkey backwards, holding up the donkey's tail, as townsfolk make loud noises around them.
ANSWER: **charivari** [accept **shivaree**, **chivaree**, **rough music**, **skimmington ride**, or **skimmity ride**]
[10] The decline in the charivari and other community controls may have fomented the sharp increase of this practice in the late 18th and early 19th centuries. Children born as a result of this practice are derisively called “bastards.”
ANSWER: **premarital sex** [accept any answers indicating sexual activities that take place between individuals who are not married; prompt on sex]
[10] The illegitimacy explosion led to a corresponding increase in child abandonment, which required the construction of many of these buildings. It's not a cathedral, but Filippo Brunelleschi was commissioned to design one of these buildings in Florence in 1419.
ANSWER: foundling **hospitals** [accept **Ospedale** degli Innocenti]
*<History European 1400-1914 - French>*

2. The letter codes of the 5 amino acids which most often form these structures are remembered using the word “MALEK.” For 10 points each:
[10] Give these examples of secondary structure that can be wound into coiled-coil motifs. They are often contrasted with beta sheets.
ANSWER: **alpha helix** or **alpha helices** [prompt on helices or helix]
[10] Coiled-coil motifs have “repeats” that are this many amino acids long. Rhodopsins belong to a class of proteins that have this many transmembrane helices.
ANSWER: **7** [prompt on heptad repeats]
[10] A dimerized alpha helix with a heptad repeat attaches to a “basic region” that recognizes certain sequences to form this DNA binding motif, which does not have turns or loops.
ANSWER: **leucine zipper** motif
*<Science Biology - Shanmugam>*

3. This book suggests studying the title concept through heterophenomenology. For 10 points each:
[10] Name this book which contrasts and refutes the Orwellian and Stalinesque explanations of illusions and proposes the “multiple drafts” model of the title entity.
ANSWER: ***Consciousness Explained***
[10] This American philosopher wrote *Consciousness Explained* where he coined the term “intuition pump.” In another book, this thinker outlined the idea of a “skyhook” that produce complexity without building on simpler components and refered to one interpretation of the theory of evolution as a “universally reducing acid.”
ANSWER: Daniel Clement **Dennett** III
[10] That “acid” was a theory proposed by this man, whose “dangerous idea” was outlined in that book. In the book *Descent of Man*, this naturalist applied his earlier theory to humans, concluding that people are descended from a common ancestor with animals.
ANSWER: Charles Robert **Darwin**
*<RMP Philosophy/Thought - McLain>*

4. Until the 1990s, these people were thought to be known as *Ghilman*, although the name they are known most by means “property” in Arabic. For 10 points each,
[10] Name this slave-warrior class of various origins, including the Caucasus, Balkans, and Turkic regions, that founded multiple sultanates in the Middle Ages.
ANSWER: **Mamluks**
[10] The Mamluks defeated the Mongols, who were led by Hulagu, at this battle, which ended the Mongol advance into the Levant. In English, this location's name means “Goliath's Spring.”
ANSWER: Battle of **Ain Jalut**
[10] The Mamluks founded a dynasty that is typically thought about in terms of the *Bahri* and *Burji* periods in this modern day country, where they held their capital at Cairo.
ANSWER: **Egypt**
*<History World - Jankov>*

5. This painting heavily inspired Ingres' *Grande Odalisque*, which was executed some fourteen years later. For 10 points each:
[10] Name this painting of a woman with her hair in the Roman style, who lies on a *chaise longue* next to a lamp in an otherwise sparse room.
ANSWER: *Portrait of Madame* ***Récamier***
[10] This artist of *Portrait of Madame Récamier*'s other “private-style” portraiture includes a portrait of Antoine Lavoisier and his wife. He also painted *The Death of Marat*.
ANSWER: Jacques-Louis **David**
[10] In this other portrait by David, a clock reading 4:13 and a lamp full of burnt-down candles indicate that the title figure has been working late through the night.
ANSWER: *The Emperor* ***Napoleon in His Study*** *at the Tuileries*
*<Arts Painting - Krol>*

6. James Merrill asked “Where's the slush of [this word]” in his poem “Snow Jobs,” which is a parody of the poem in which this word originates. For 10 points each:
[10] Name this word, which Dante Rossetti coined to translate the refrain of a poem by François Villon.
ANSWER: **yesteryear**
[10] “But where are the snows of yesteryear?” is repeated at the end of each stanza of Villon's poem, since it is a poem in this form. Along with the *rondeau* and the *virelai*, this is one of the three *form fixes* commonly set to music in medieval France.
ANSWER: **ballade** **(ball-ODD)** [do not accept “ballad,” ask the player to spell it out if necessary]
[10] Villon listed “Heloise” and “Joan [of Arc]” in his “Ballade of [these people] of Time Gone By.” Christine de Pizan wrote a book set in the “City of [these people]” which discusses historical examples of them such as Theodora and Blanche of Castile.
ANSWER: **ladies** [or **dames**, or **women**]
*<Literature European - French>*

7. In 2019, judges ruled in favor of the families of victims of this event in the case of *Soto v. Bushmaster*, arguing that Remington could be sued for violating a state law on unfair trade practices. For 10 points each:
[10] Identify this event. Five months after this event, governor Dannel Malloy signed a law banning the purchase of magazines with more than 10 rounds of ammunition in his state.
ANSWER: **Sandy Hook** Elementary School shooting [or **Sandy Hook** massacre]
[10] The *Soto* decision was made by the Supreme Court in this state, where the Sandy Hook shooting took place.
ANSWER: **Connecticut**
[10] Following Sandy Hook, Barack Obama issued an executive order easing restrictions on this law that prevented information being sent to the National Instant Criminal Background Check System. The HITECH Act required organizations covered by this law to publicize data breaches.
ANSWER: **HIPAA** [or **Health Insurance Portability and Accountability Act** of 1996; or **Kassebaum-Kennedy** Act]
*<Current Events US - Bentley>*

8. Films by this man played during the Exploding Plastic Inevitable shows he organized. For 10 points each:
[10] Name this artist who designated such people as Nico, International Velvet, and Paul America his namesake “superstars.” His “superstars” appeared in films he created with Paul Morrissey, including *Chelsea Girls* and *Lonesome Cowboys*.
ANSWER: Andy **Warhol** [or Andrew **Warhola**]
[10] Warhol's practice of instantly creating “superstars” by filming them on a whim exemplified his dictum that “in the future, everyone will be world-famous for” this length of time.
ANSWER: **fifteen minutes** [prompt on partial]
[10] Mary Hallon's directorial debut concerned the assassination attempt on Warhol perpetrated by this woman, who also wrote the SCUM Manifesto. As a result of her actions, Warhol became “cardboard” and soon stopped making his “superstar” films.
ANSWER: Valerie **Solanas**
*<Arts Film - Smith>*

9. The PW91 **(“P-W-ninety-one”)** functional is based on this approximation. For 10 points each:
[10] Name this approximation, which uses an expression involving a namesake operator to calculate the exchange-correlation potential. This approximation is used in place of the local density approximation in regions where the density changes rapidly.
ANSWER: **generalized gradient** approximation [or **GGA**]
[10] The generalized gradient approximation is used in density functional theory, which is used to study the distribution of these particles. The functionals in density functional theory are functions of the density of these negatively charged leptons.
ANSWER: **electron**s
[10] Another approximation useful in density functional theory is the Born-Oppenheimer approximation, in which these objects are treated as static.
ANSWER: **nuclei** [or **nucleus**]
*<Science Chemistry - French>*

10. An eyewitness boasted that “the results of this battle will be as important and memorable to those whom it concerns as those of the battle of Bunker Hill, at least.” For 10 points each:
[10] Name this battle. An account of its ground “strewn with the dead and dying” of both the “red imperialists” and “black republicans” is found in “Brute Neighbors.”
ANSWER: Battle of the **Ants**
[10] The Battle of the Ants was fought near this lake. B.F. Skinner would later title a description of his behaviorist Utopia for this lake “two”.
ANSWER: **Walden** Pond
[10] The Battle of the Ants appears in the writings of this author of *Walden*, who described being put in jail for refusing to pay his taxes in *Civil Disobedience*.
ANSWER: Henry David **Thoreau**
*<Literature American - Smith>*

11. Despite several previous incidents of drunkenness and insubordination, this man was spared a court-martial because his father John was Secretary of War. For 10 points each:
[10] Name this co-founder of the Chi Psi Fraternity. Accounts differ on whether this midshipman was trying to play a prank on his captain or start a new fraternity aboard the USS *Somers*, but in any case he was hanged after being accused of plotting a mutiny against Captain Alexander Slidell Mackenzie.
ANSWER: Philip **Spencer**
[10] A public outcry after Spencer's hanging led to the establishment of the US Naval Academy in this capital of Maryland.
ANSWER: **Annapolis**
[10] Mackenzie was the brother of Louisiana senator and diplomat John Slidell, who was captured by the Union navy on a mission to Britain on behalf of the confederacy in this affair named for the ship he traveled on.
ANSWER: ***Trent*** Affair
*<History American (pre-1865) - Jackson>*

12. The Hamiltonian of this model has a term accounting for the interactions between neighboring spins as well as a term accounting for the interaction of each spin with the external magnetic field. For 10 points each:
[10] Name this model. It consists of a lattice of values that can be either +1 or -1, representing the states for spin up and spin down.
ANSWER: **Ising** model
[10] The Ising model is a model for a type of this phenonmenon which occurs in Nickel and Cobalt but also occurs in, and is named for Iron.
ANSWER: **ferromagnetism**
[10] This other statistical mechanical model generalizes the Ising model so that each lattice point may have more than two possible states. When the parameter *q* is an integer, the Fortuin-Kasteleyn model is also a special case of this model.
ANSWER: **Potts** model
*<Science Physics - French>*

13. This man's teachings inspired a Jewish revolt in Iraq that briefly led to the establishment of an independent state. For 10 points:
[10] Name this egalitarian priest whose teachings were supported by King Kavadh I. He propagated a doctrine named for him but originated by Zaradust-e-Khuragan.
ANSWER: **Mazdak** [accept **Mazdak**ism]
[10] Mazdak's teachings lost state support after he was censured by this influential group of priests, who legendarily buried thousands of his followers alive in what they termed a “human garden”.
ANSWER: **magi**
[10] Mazdakism is regarded as a heresy of this religion, which was the state religion of Persia under the Sassanid dynasty before its conquest by the caliphate.
ANSWER: **Zoroastrianism**
*<RMP Non-Christian/Bible Religion - Myers>*

14. The comedic musical group Les Luthiers is from this country. For 10 points each:
[10] Name this country home to the *Teatro Colón*. Musicians from this country include pianist Martha Argerich, conductor Daniel Barenboim and composer Alberto Ginastera.
ANSWER: **Argentina** [or **Argentine Republic** or **Republica Argentina**]
[10] A variation of music for this dance that is popular in Finland is almost always in a minor key. Carlos Gardel popularized this Argentine partner dance.
ANSWER: **tango**
[10] This bandoneon player was encouraged by Nadia Boulanger to write tango music. The addition of saxophone and electric guitar help to character the *nuevo tango* genre created by this musician, which includes his *Libertango*.
ANSWER: Astor **Piazzola**
*<Arts Music - Smith>*

15. In one short story by this author, Vera dates a foreign man named Rad who eventually plants explosives in her luggage in order to blow up a plane. For 10 points each:
[10] Name this author whose first work was the short story collection *Face To Face*. In addition to short stories including “Some are Born to Sweet Delight”, this author wrote a short novel in which Maureen Smales refuses to finish reading a copy of Manzoni's *The Betrothed*.
ANSWER: Nadine **Gordimer**
[10] In this Gordimer short story from the collection *A Soldier's Embrace*, the village of Dilolo is burned after its chief reveals that it is harboring guerrillas during the Rhodesian Bush War.
ANSWER: “**Oral History**”
[10] In Gordimer's short story “The Life of the Imagination”, the narrator is anxious that black men will kill her due to anger over this set of policies, which Gordimer agitated against as part of the African National Congress.
ANSWER: **apartheid**
*<Literature World - Myers>*

16. Dorothy Smith developed the “institutional” form of this practice, which focuses on the ways people interact in social institutions such as hospitals and schools. For 10 points each:
[10] Name this practice, which Clifford Geertz argued should be done with “thick description,” which consists of describing behavior in context. The “salvage” form of this practice records the practices and beliefs of cultures at risk of extinction.
ANSWER: **ethnography**
[10] Smith attacked the current state of gender relations in a text titled for this type of world “as problematic”. Henri Lefebvre published a three-volume critique of this type of “life” that helped inspire the 1968 Parisian uprising.
ANSWER: **everyday** [accept **quotidienne**]
[10] Smith argued that writing in this field objectifies women and treats them as an “other” due to the male-dominated nature of its discipline. Auguste Comte and Emile Durkheim are considered the “fathers” of this field.
ANSWER: **sociology**
*<Social Science Sociology - Myers>*

17. Whether a couple in Greek myth ends up happily ever after usually depends on how the gods feel about them. For 10 points each:
[10] This couple refered to each other as “Zeus” and “Hera.” Zeus didn't like this so he killed the husband, which led to the wife killing herself in grief. This couple was then turned into kingfishers. Give both of their names.
ANSWER: **Ceyx** and **Alycone** [do NOT accept or prompt a partial answer]
[10] After failing to propitiate Aphrodite, Hippolytus was punished by having this step-mother of his fall madly in love with him. When Hippolytus rejects her advances, this woman falsely accuses him of rape, after which he is put to death.
ANSWER: **Phaedra**
[10] As a result of their hospitality to him, Zeus rewarded Baucis and Philemon by allowing them to turn into two of these plants that grew from the same base. While fleeing from Apollo, Daphne was turned into one of these plants.
ANSWER: **tree**s [accept **oak**, **lime**, or **laurel** trees]
*<RMP Greek/Roman Myth - Hijazi>*

18. The English word “person” may ultimately derive from this language's word for “mask.” For 10 points each:
[10] Name this language, which was written in a script that resembles Greek or Latin letters, but as a mirror image. The Emperor Claudius compiled a dictionary of this language that is now lost.
ANSWER: **Etruscan**
[10] The Etruscan language may also be the source for the name of this Italian city, which eventually conquered the Etruscans and then the rest of the Mediterranean.
ANSWER: **Rome**
[10] An Etruscan book, the *Liber Linteus*, has been preserved since it was oddly used as part of one of these things. These things were prepared with natron as well as with spices such as cassia and myrrh.
ANSWER: ancient Egyptian **mummies**
*<History European to 1400 - French>*

19. In this discipline, two objects are equal if their difference is a P-position, while they are “fuzzy” if their difference is an N-position. For 10 points each:
[10] Name this field of mathematics. In this field, values such as “tinies” and “minies” are used to describe positions in Domineering and Hackenbush.
ANSWER: **combinatorial game** theory [prompt on game theory]
[10] One object studied in combinatorial game theory is this impartial game that involves taking objects from piles of different sizes, with the goal being to avoid taking the last object. The namesake “sum” of this game is equivalent to bitwise xor.
ANSWER: **nim**
[10] Combinatorial game theory can be used to study this strategy board game. Deep Blue, a computer built to play this game, defeated this game's human champion Garry Kasparov in 1997.
ANSWER: **chess**
*<Science Math - French>*

20. Antonio Gramsci observed that this character's reliance on deduction and introspection allows him to “totally defeat” a Protestant, whom Gramsci compared to a “pretentious little boy.” For 10 points each:
[10] Name this man who convinces Flambeau to give up crime and become a detective. He first appears in “The Blue Cross,” a story in which this character helps Valentin arrest Flambeau.
ANSWER: Father **Brown**
[10] This creator of Father Brown dedicated *The Napoleon of Notting Hill* to Hillaire Belloc. George Bernard Shaw combined this author's name with that of Belloc due to their similar conservative views.
ANSWER: G.K. **(Gilbert Keith)** **Chesterton** [accept **Chesterbelloc**]
[10] Chesterton is also known as an apologist for this Christian denomination. John Henry Newman's conversion from Anglicanism to this branch of Christianity, after which he assumed the title of Cardinal, was explained in his *Apologia Pro Vita Sua*.
ANSWER: Roman **Catholic**ism
*<Literature British Non-Shakespeare - Smith>*

21. This organization got permission to film the US Senate after Senator Robert Byrd realized how much more TV coverage the House was getting. For 10 points each:
[10] Identify this broadcaster that finally started airing Senate proceedings in 1986.
ANSWER: **C-SPAN** [or **Cable-Satellite Public Affairs Network**]
[10] This Tennessee Congressman gave the first speech that C-SPAN aired in 1979. After he moved to the Senate, this “Atari Democrat” sponsored the 1991 High Performance Computing Act that provided funding for the nascent internet.
ANSWER: Al **Gore** [or Albert Arnold **Gore** Jr.]
[10] C-SPAN changed its copyright policies in 2007 following controversy over its attempts to remove a recording of this event from YouTube. Gerald Ford's 1976 speech at this event referenced the clumsy portrayal of him on SNL.
ANSWER: **White House Correspondents**' Association Dinner Roast [or **WHCA** Dinner]
*<History American (1945-present) - Bentley>*