**2019 National All-Star Academic Tournament**

**Round 6 – Tossups**

1. In Vietnamese mythology, in addition to axes, Thien Loi uses these weapons to punish the immoral. With the aid of his wife's mirrors, Lei Gong was said to use these weapons to kill evildoers. In English folklore, sea urchin fossils were believed to be the remains of these weapons. The Navajo Hero Twins used bows that fire these weapons instead of arrows. The Orisha associated with these weapons was believed to throw stones at people he intended to punish with these weapons. After Veles steals another god's cattle, this type of weapon is used on him, turning him into a puddle. In addition to Shango and Perun, another wielder of these weapons uses them in his fight against the dragon Vritra. That weapon, the Vajra, was also used to stop Hanuman from eating the sun. Indra uses, for 10 points, what weather-based weapon symbolized by Thor's Mjolnir?  
ANSWER: **lightning** bolts [accept **thunder**bolts; accept **Vajra**; prompt on just bolts]  
*<RMP Non-Greek/Roman Myth - McLain>*

2. Garcilaso de la Vega wrote a poem in this form that rhymes the line “enciende el corazón y lo refrena” **(en-see-EN-day el co-ra-ZONE ee lo re-FRAY-na)** with “En tanto que de rosa y azucena” **(en TON-toh kay day RO-sa ee a-zu-SAY-na)**. The line “is corpse, is dust, is shadow, and is nothing” concludes a poem in this form by Sor Juana that is addressed “To Her Portrait.” A poem in this form observes “Yet I see clearly now I have become / an old tale amongst these people.” That poem concludes, “at the beginning / of the first hour, on the sixth day of April, / I entered the labyrinth, and see no escape.” A rhetorical shift near the middle of poems in this form is called the “volta” or “turn.” A collection primarily consisting of poems in this form begins “You who hear the sound, in scattered rhymes.” That collection, *Il Canzoniere*, includes many poems in this form dedicated to Laura. For 10 points, name this poetic form whose “Petrarchan” variant consists of an octave and a sestet.  
ANSWER: Petrarchan **sonnet**  
*<Literature European - French>*

3. A series of works by this artist are surrounded by the caption “Just as in the anatomy of man, every nation must have its hind part” and show maps of southern states surrounded by rings. This artist included the dates 1914 and 1989 in the first of a series of elegies for Marsden Hartley. The Toronto-based artist collective General Idea parodied this artist's most iconic work to raise awareness for AIDS. This artist first used his most-famous motif in a 1965 Christmas card he designed for the Museum of Modern Art, and he created a Hebrew version of that motif for the Israel Museum. A park in Philadelphia is nicknamed for a sculpture by this artist whose second letter is a tilted “O.” For 10 points, name this Pop Artist behind the *LOVE* sculptures, who changed his surname to the name of his native state.  
ANSWER: Robert **Indiana** [or Robert **Clark**]  
*<Arts Painting - Bentley>*

4. The set of functions with this property on a connected smooth manifold comprise its zero-th de Rham cohomology group. A real-valued function has this property if there is an alpha greater than one for which it is alpha-Hölder continuous. Any continuous function from the real numbers to the integers must possess this property, because the integers are totally disconnected. If *K* is a field, the nonzero polynomials with this property are the units in the polynomial ring *K* of *x*. Complex functions that are both bounded and entire must possess this property by Liouville's theorem. On its support, the density function of the uniform distribution has this property. A function has this property if and only if its derivative is zero at every point. For 10 points, name this property of a function whose output does not depend on its input.  
ANSWER: **constant** [or locally **constant**; accept any answer indicating the function takes on only **one value**; accept answers indicating that the **derivative is zero** at every point until “derivative” is read]  
*<Science Math - Morrison>*

5. At the celebratory meal following one of these events, the traditional blessings are preceded by the *Nodeh Leshimcha*. A final step in this ceremony that is traditionally performed *b'peh*, or with the mouth, has become controversial due to associated health risks. The central action in this ceremony is followed by a *p'riah* and the *m'tzitzah*. Among Ashkenazis, a *kvatter* may bring a participant in this ceremony to the Throne of Elijah, after which that participant sits on the thighs of the *sandek*. The *mogen* shield was formerly used in this ceremony, which requires the use of a tool called an *izmek*. The practice of sucking blood from a wound created in this ceremony has been linked to transmission of herpes. It is performed by a *mohel* eight days after birth. For 10 points, identify this ceremony in which a child's foreskin is removed.  
ANSWER: **circumcision** [or ***brit milah***; or ***bris***]  
*<RMP Non-Christian/Bible Religion - Smith>*

6. The privateer Skipper Clement led one uprising of Catholics in this country. A series of military defeats for this country led to the fall from power of the noble Rosenkranz family. During the American Revolution, this country's foreign minister negotiated a pact with Russia that became the League of Armed Neutrality. A phase of one war named for this country ended at the Treaty of Lübeckafter an attempt to take its capital failed. This country was defeated in one war after its adversary marched over a frozen strait to surprise its forces. The Counts' Feud in this country led to its conversion to Protestantism. Both combatants in that war that gave its victors the right to extract the Sound Dues were, like ten of this country's kings, named Christian. For 10 points, name this Scandinavian country that kept Norway as a vassal until it was ceded to Sweden.  
ANSWER: Kingdom of **Denmark** [accept Kongeriget **Danmark** or **Denmark-Norway**]  
*<History European 1400-1914 - Myers>*

7. In one novel, the detective Birdy Edwards infiltrates a secret society from this country. One character from this country writes “Rache” on the wall of the murdered Enoch Drebber to make the police think he is German. It's not India, but upon receiving a letter from a man from this country, the brother of the bicycle tire magnate John Openshaw shouts “my god, my sins have overtaken me”. The section “The Country of the Saints” explains why a man from this country, Jeff Hope, killed members of a religious group from this country who had tried to force his wife into a polygamous marriage. A terror group from this country sends a letter containing the title “Five Orange Pips” of another story warning an emigrant from this country of his impending death. For 10 points, name this country, whose history Sherlock Holmes investigates after a client receives a threat from the Ku Klux Klan.  
ANSWER: **United States** of **America** [accept either or both underlined parts; accept **US**A; accept **Deseret**]  
*<Literature British Non-Shakespeare - Myers>*

8. In one collection, this composer ordered six arias so their keys span a perfect fifth; a Nuremberg church names the *Sebaldina* aria that closes that collection by this musician. This composer wrote six surviving chaconnes, two of which are respectively in D minor and F minor. This composer of 95 *Magnificat Fugues* instructed two violins that play over continuo to use scordatura tuning throughout a set of six suites. A piece by this composer was catapulted to fame by Jean-Francois Paillard's 1968 recording. His less popular works include *Hexachord Apollonis*, *Musical Delight*, and *Musical Thoughts on Death*. This composer wrote a piece in which a characteristic shifted *romanesca* bass pattern of **(read slowly, with pauses)** 1,5,6,3,4,1,4,5 is played 28 times by the continuo as three violins play the melody in a round. For 10 points, name this Baroque composer who paired a *gigue* **(zeeg)** with his *Canon in D*.  
ANSWER: Johann **Pachelbel**  
*<Arts Music - Smith>*

9. The roots for the principles decreed in this case can be traced to *Van Horne's Lessee vs. Dorrance*, in which a justice who also presided over this case described the Constitution as “the sun of the political system.” This case partly arose due to conflict over the Organic Act. Former Attorney General Charles Lee represented the petitioner in both this case and in a case decided a week later, *Stuart v. Laird*, that affirmed the legality of circuit riding. The Majority Opinion for this case stated that the Supreme Court did not have the ability to decree a writ of mandamus to guarantee the petitioner's appointment as Justice of the Peace. In this case, the Supreme Court unanimously ruled that Section 13 of the Judiciary Act of 1789 was unconstitutional. For 10 points, name this 1803 case presided over by Chief Justice Marshall that established the principle of judicial review.  
ANSWER: ***Marbury*** *v. Madison* [accept in either order]  
*<History American (pre-1865) - Husar>*

10. Michel Rabinovich identified a non-professional form of this process involving epithelial cells and fibroblasts. This process can be initiated by activation of the phosphatidylserine receptor. This process occurs concurrently with increased oxygen uptake and large metabolization of glucose through the pentose phosphate pathway to create peroxynitrite and hypochlorous acid, allowing cells associated with this process to perform respiratory bursts. Streptococcus M protein is classified as “anti-” this process since it inhibits C5-convertase, preventing C3b activation. This process is enhanced by opsonization and typically relies on axopodia quickly contracting in response to external stimuli. Specialized compartment cells that perform this process include Kupffer cells and microglia. This process can be initiated by monocytes and neutrophils that come in contact with a cell tagged with antibodies. For 10 points, name this type of endocytosis involving uptake of large particles and pathogens.  
ANSWER: **phagocytosis** [prompt on endocytosis]  
*<Science Biology - Etzkorn>*

11. At the end of this novel, a man dies and then “lay there, collapsed like a pile of rocks.” In this novel, a man approaches Ana in her room at night claiming that he wants to apologize for murdering her father, but instead he rapes her. A woman in this novel tells the nurse Justina “I only believe in hell” shortly before dying. Gabriel García Márquez claimed that he was only able to finish writing *One Hundred Years of Solitude* after reading this novel. A man in this novel declares that he will “cross [his] arms” and let his town “die of hunger” after the death of Susana San Juan. In this novel, the narrator talks to Damiana Cisneros, Eduviges Dyada, and the mule-driver Abundio before realizing that they are all ghosts. For 10 points, name this novel in which Juan Preciado travels to Comala to meet his father, a work by Juan Rulfo.  
ANSWER: ***Pedro Páramo***  
*<Literature World - French>*

12. One law in this country that allowed prisoners time off their sentences for writing books was repealed after one prisoner wrote a 212-page book in 7 hours. One politician from this country who had been appointed to a top EU anticorruption post had her nomination sabotaged by the ruling Social Democratic Party. The Colectiv Revolution, which began after a discotheque fire in this country, toppled one of its governments led by Victor Ponta. This country elected its first ethnic-German president, Klaus Iohannis, in 2014. This country's city of Timisoara has historically been the center of protests against its governments. For 10 points, name this Balkan country whose Prime Minister lives in Bucharest.  
ANSWER: **Romania**  
*<Current Events Non-US - Myers>*

13. One of these objects built in Syria contains disparate cultural influences such as a Chinese-style dragon being fed by a mahout in Indian attire perched on an Islamic-style dome. That one of these objects designed by al-Jazari is named for the elephant at its base. Eli Terry introduced innovations like an assembly line and interchangeable parts to the production of these things when the US military commissioned him to make 4000 of them. A giant one of these things built by Su Song in Kaifeng was destroyed when that city fell to the Jurchen. Early versions of these objects worked by regulating the rate at which a hollow wooden bowl sank in a pool of water. Christiaan Huygens introduced the pendulum to the design of these objects. For 10 points, name these objects often placed in towers in European cities, that often included attached bells that chimed on the hour.  
ANSWER: **clock**s [accept **clock** towers]  
*<History World - Myers>*

14. Chuck Israels briefly joined this bandleader's group before being replaced by Eddie Gomez. A popular track by this musician is sometimes named for Swedish singer Monica Zetterlund. Israels joined this musician's band after a car crash killed the man who wrote “Jade Visions” and “Gloria's Step” for that group led by this jazzer. Because this musician was their foremost popularizer, rootless chord voicings are often nicknamed for him. Wynton Kelly replaced this musician on only one track on Miles Davis' *Kind of Blue*, for which this man likely wrote “Blue in Green.” This man led the group that recorded the live album *Sunday at the Village Vanguard*. Paul Motian **(“motion”)** and Scott LaFaro accompanied this jazz musician, who created a piece in 3/4 **(“three four”)** time as a musical portrait of his niece. For 10 points, name this jazz pianist whose trio recorded “Waltz for Debby.”  
ANSWER: Bill **Evans** [or William John **Evans**; do NOT accept **Gil Evans**]  
*<Arts Jazz - Smith>*

15. In 2012, Perrett et al. determined the rate of these objects to be **(read slowly)** “1.7 times 10 to the negative 5 times quantity 1 plus redshift to the 2.11 per year per cubic megaparsec.” The delay time distribution between the star formation rate and the rate of these objects is usually proportional to time to the negative first power which is consistent with the “Double Degenerate” model of their production. Khoklov proposed the DDT model or the Deflagration-Detonation transition model for these objects production. The “Single degenerate” model of these objects states that a red giant or main sequence star overflows its roche lobe and its companion begins to accrete mass from it until Carbon detonation begins slightly before the Chandrasekhar limit. For 10 points, name these events which result from the explosion of a white dwarf.  
ANSWER: **Type Ia supernovae** [prompt on supernovae or Type I supernovae; do NOT accept or prompt on answers related to “Core Collapse” or “Type II” or “Nova” or “Kilonova”]  
*<Science Astronomy - Lasker>*

16. This politician's personal lobbying for states to ratify one piece of legislation led to protestors holding signs telling her to “Get Off the Phone.” She was told, “Well, honey, there goes about 20 million votes” after she gave a candid 60 Minutes interview to Morley Safer and a taboo-breaking *Newsweek* piece chronicled her treatment for breast cancer. This woman co-chaired a “Countdown Campaign” as part of her lobbying for the passage of the Equal Rights Amendment. Following an intervention, this woman kicked her addiction to pills and alcohol and founded a namesake center for treating addiction. She delivered a concession speech that acknowledged a onetime peanut farmer from Georgia as her husband's successor. For 10 points, name this First Lady who assumed the office following the resignation of Richard Nixon.  
ANSWER: **B**etty **Ford** [or **E**lizabeth Anne **Ford**; or Elizabeth Anne **Bloomer**; prompt on Ford or Mrs. Ford]  
*<History American (1945-present) - Bentley>*

17. It's not cerium, but all variants of the nonlinear Belousov–Zhabotinsky reaction involve this element, which is usually provided by a potassium salt. Alexander Borodin discovered how to produce compounds containing this element from silver carboxylates, which was later generalized to the Hunsdiecker reaction. The past use of this element's sodium and potassium salts as anticonvulsants resulted in a disease named for it. An emulsifier commonly used in soft drinks consists of triglycerides with ligands of this element, and is currently banned in the EU. An indicator which turns from yellow to blue above pH 7.6 contains 2 atoms of this element bonded to thymol groups, and adding this element to an unsaturated compound causes it to lose its color in a common text for alkenes. The only non-metal to be liquid at room temperature is, for 10 points, what reddish-brown halogen?  
ANSWER: **bromine**  
*<Science Chemistry - Mitchell>*

18. A 1986 study by Killingsworth and Heckman classified empirical studies of this quantity as “first generation” or “second generation” depending on whether they treated this quantity as a censored variable. The “consensus” estimate of this quantity's elasticity is roughly equal to negative point one, according to a survey of models of this quantity by Richard Blundell and Thomas MaCurdy. Ragnar Frisch names a measure of the elasticity of this quantity. Proponents of the EITC argue that it increases this quantity by introducing “kinks” into actors' budget lines. When the income effect begins to dominate the substitution effect, the curve of this quantity bends backwards. This quantity increases when there is an increase in the opportunity cost of leisure, usually caused by a change in the real wage. For 10 points, name this measure of the willingness of people to work in an economy.  
ANSWER: **labor supply** [or **labor**; accept **labor** force participation rate; prompt on supply by asking “supply of what?”]  
*<Social Science Economics - French>*

19. In a 1970 book defending its formulator's use of reason, Harry Frankfurt argued that the point of this proposition is not the argument as much as the fact that the conclusion cannot be falsely believed. In *The History of Madness*, Michel Foucault argued that this statement was arbitrarily self-assured do to the exclusion of madness in its formulation. That analysis of this argument was critiqued in a Jacques Derrida essay that pairs its common name with “the history of madness.” Pierre Gassendi critiqued this argument for linking the first-person pronoun to the unextended substance it proposes. This argument was used as the “first principle” of a certain thinker's system derived from radical doubt. For 10 points, identify this argument for the existence of the self, whose Latin name is derived from the *Discourse on Method* of its creator Rene Descartes.  
ANSWER: the **Cogito** [or **cogito**, ergo sum; or “**I think, therefore I am**”; or  **je pense, donc je suis**]  
*<RMP Philosophy/Thought - Smith>*

20. In a novel titled for a concept from this religion, slaves are referred to as “shards” and Roger Bevins III has a vision of going on a sea voyage and becoming a pharmacist's common-law husband after killing himself due to his homosexuality. One novel about followers of this religion is titled for a statue of its founder left “in the attic” during a mass deportation. Another novel utilizes a concept from this religion to depict Abraham Lincoln's grief at the death of his son, Willie and won George Saunders a Pulitzer Prize. In a novel written by a follower of this religion, the character of Japhy Ryder is based on Gary Snyder, a poet who followed this religion. Hugh Conway discovers a utopian city inhabited by immortal followers of this religion in James Hilton's novel *Lost Horizon*. For 10 points, name this religion followed by the main characters of Jack Kerouac's *The Dharma Bums*.  
ANSWER: **Buddhism** [accept **Hinayana** Buddhism, **Zen** Buddhism, **Mahayana** Buddhism, or **Tibetan Buddhism**] (the novels referenced are Julie Otsuka's *The Buddha in the Attic* and George Saunders' *Lincoln in the Bardo*)  
*<Literature American - Myers>*

21. An early governor of this colony imitated local tribes by fighting naked, thus showing off a large tattoo of a snake. General Alexandre O'Reilly led a successful attempt to annex this colony. The Inquisition agent Antonio de Sedella became famous for baptizing slaves in this colony after running afoul of its governor, Bernardo de Galvez. A critical nexus of trade in this colony was controlled by the Mandan, Hidatsa, and Arikara peoples. After the establishment of this colony, Antoine Crozat was given a twelve-year monopoly on trade in it. This colony was traded for land in Tuscany in the Third Treaty of San Ildefonso. The Sieur de Iberville helped establish this colony's largest city. Trade along a river in this colony was frequently conducted by mixed-race *coureurs du bois*. For 10 points, name this French colony sold to the US in a namesake 1803 “purchase”.  
ANSWER: **Louisiana** [prompt on New France or Nouvelle-France]  
*<History American (pre-1865) - Myers>*

**2019 National All-Star Academic Tournament**

**Round 6 – Bonuses**

1. Answer the following about Danish contributions to the field of phonology. For 10 points each:  
[10] The Danish linguist Otto Jespersen discovered this phenomenon, which is one of the reasons why Chaucer and Shakespeare employ different rhyming patterns. This phenomenon resulted in a chain raising of front and back varieties of its namesake sounds.  
ANSWER: **Great Vowel Shift** [accept **GVS**; prompt on vowel shift or chain shift]  
[10] The Danish linguist Rasmus Rask discovered this phonological law before its German namesake. This law governs consonantal changes between proto-Indo-European and proto-Germanic, thus explaining the change of the Latin “pater” to the English “father”  
ANSWER: **Grimm**'s Law  
[10] Another Danish linguist inspired by Rask derived this phonological law, which stipulates stress circumstances in which Grimm's law ran in reverse.  
ANSWER: **Verner**'s Law  
*<Social Science Linguistics/Languages - Myers>*

2. Nima Arkani-Hamed and Jaroslav Trnka have pioneered the study of this quantity's namesake “hedron,” which can be used to calculate particle interactions in a special case of Yang-Mills theory. For 10 points each:  
[10] Name this quantity. The modulus squared of this quantity equals the differential cross section of its namesake process.  
ANSWER: **scattering amplitude** [prompt on amplitude or amplituhedron]  
[10] Like the amplituhedron, these other geometric structures can also be used to calculate the scattering amplitude of particle interactions. Techniques such as renormalization or regularization are typically necessary to interpret the “one-loop” variety of these structures.  
ANSWER: **Feynman diagram**s [or **Stueckelberg diagram**s, **Dyson diagram**s, or **Feynman-Dyson diagram**s]  
[10] Feynman diagrams use a squiggly line to represent these massless particles which mediate the electromagnetic force.  
ANSWER: **photon**s  
*<Science Physics - French>*

3. A chore-girl's performance of this action that titles one of the author's “Home Ballads” involves draping black shrouds since “Mistress Mary is dead and gone.” For 10 points each:  
[10] Name this action, a European folk tradition in which certain animals would be informed of births, deaths, marriages, and other events in a human family's life.  
ANSWER: **tell**ing the **bees** [or **tell**ing of the **bees**]  
[10] This Quaker poet of “Telling the Bees” wrote about “a universe of sky and snow” in “Snow-Bound.”  
ANSWER: John Greenleaf **Whittier**  
[10] This author of the poem “Song of the Queen Bee” is better known as an editor who co-wrote a style guide with William Strunk and as an author of children's literature such as *Charlotte's Web*.  
ANSWER: E(lwyn) B(rooks) **White**  
*<Literature American - Smith>*

4. Identify the following about the changing role of women in Japan, for 10 points each.  
[10] The ideal of ryosai kenbo or “Good Wife, Wise Mother” was promoted during the reign of this emperor, whose namesake restoration ended the Tokugawa Shogunate.  
ANSWER: **Meiji** Emperor [or Emperor **Meiji** the Great]  
[10] After the second world war, the “Kyariauman” **(kyaria-ooman)** developed as a female analogue to this group of stereotypically overworked, white-collar professionals who frequently have lifetime jobs at large corporations.  
ANSWER: **salaryman** [accept ***sarariman***]  
[10] This industry opened to Japanese women in the 1920s, in part from pressure from a “Pure” movement led by novelists like Junichiro Tanizaki. Nikkatsu is the oldest Japanese company in this industry still in operation.  
ANSWER: **film** [or **movies**; or **cinema**; prompt on entertainment]  
*<History World - Bentley>*

5. In plant propagation, cuttings are often dipped in an auxin powder to stimulate the development of these organs. For 10 points each:  
[10] Name these belowground plant structures which take up nutrients and water.  
ANSWER: **root**s  
[10] Skoog and Miller found that auxins often act antagonistically to this other class of plant hormones, which tend to promote cell division. While auxins often rely on PIN transporters to move throughout the roots, these hormones diffuse much more freely.  
ANSWER: **cytokinin**s  
[10] During root development, the radial and transverse walls of the endodermis often develop a Casparian strip, which is made mostly of this hydrophobic compound that also makes up the majority of cork.  
ANSWER: **suberin**  
*<Science Biology - Kothari>*

6. The funding of this place's construction by Republican donors has led to official harassment of its Democratic Club. For 10 points each:  
[10] Name this place in Sumter County, Florida, which contains a reconstructed mid- 20th century downtown and is the US's largest retirement community.  
ANSWER: **The Villages**  
[10] A US representative from this state, Debbie Lesko, campaigned on having introduced a bill to make golf carts road-legal. Del Webb designed pioneering retirement communities in this state including Sun City, the largest until the construction of the Villages.  
ANSWER: **Arizona**  
[10] Tavares, Florida is a large retirement community for people from this immigrant group, who popularized dishes including Saag Paneer and Biryani in the US.  
ANSWER: **Indian**-Americans [accept **South Asian** Americans or **Desi**s; prompt on Asian- Americans]  
*<Geography US - Myers>*

7. Before his execution, this nobleman was accused of blasphemy, homosexuality, and spitting on the cross, and confessed to all the charges except the one of homosexuality. For 10 points each,  
[10] Name this last leader of the Knights Templar, who was burned at the stake after his order was banned by Pope Clement V.  
ANSWER: Jacques de **Molay**  
[10] Jacques de Molay was executed by a monarch of this name nicknamed “The Fair”; another French monarch of this name was nicknamed “Augustus” and defeated King John of England in a series of wars.  
ANSWER: **Philip** [accept **Philippe**, **Philip** the Fair, **Philip** IV, **Philippe** le Bel, **Philip** II, or **Philip** Augustus]  
[10] According to this secret society's lore, de Molay was executed for refusing to surrender wealth he found in the Temple of Solomon, thus leading this organization, said to have originated from bricklayers at the Temple, to go underground until the 18th century.  
ANSWER: Free**mason**s [accept **Scottish Rite** Freemasonry]  
*<History European to 1400 - Myers>*

8. The use of this technique spanning an octave over 100 notes on the last word inspired the name of the *Missa Caput*. For 10 points each:  
[10] Name this technique in which several notes are used to sing a syllable of text, common in Gregorian chant.  
ANSWER: **melisma** [or forms like **melismatic**]  
[10] Melismas were used by this ethnoreligous group's Masorete scribes that wrote the rules for cantillation of its holy text. Abraham Idelsohn was the “father” of the modern musicology of this ethnic group, who are considered the inventors of klezmer music.  
ANSWER: **Jew**s [accept **Ashkenazi** Jews]  
[10] The Christian hymn “Angels We Have Heard on High” contains a melisma on the “o” in this Latin word. That song is based on a hymn that begins with this word, which follows the *Kyrie* to close the introductory rites.  
ANSWER: ***Gloria*** [*in excelsis Deo*]  
*<Arts Music - Smith>*

9. This author of “Fungoids” and “Negations” is described as “a thurd-rait poit hoo beleevz imself a grate jeneus” in an encyclopedia entry from the future. For 10 points each-  
[10] Name this character who makes a deal with the Devil to travel 100 years forward in time, only to discover that he's primarily remembered as the main character of a short story.  
ANSWER: **Enoch** **Soames** [accept either or both underlined parts]  
[10] This author included the short story “Enoch Soames” in his collection *Seven Men.* He also wrote the satirical novel *Zuleika* **(ZOO-LEE-KAH)** *Dobson*.  
ANSWER: Max **Beerbohm**  
[10] Beerbohm wrote a book of parodies of popular authors named for a “garland” on this holiday. That book titled for this holiday includes a mock Rudyard Kipling poem about Santa Claus being arrested.

ANSWER: **Christmas** Day  
*<Literature British Non-Shakespeare - Tong>*

10. This thinker is sometimes considered a “terminist” because he held that universals were mental substitutes for objects, rather than just words. For 10 points each:  
[10] Name this thinker, a follower of Roscellinus and an influential figure in the development of nominalism. Adam de Wodeham wrote the foreword to this man's most famous work, which demonstrated a transition from a “dictum” theory to an “intellectio” theory as a way of critiquing universals.  
ANSWER: William of **Ockham** [or **Occam**]  
[10] Ockham used the sentence “Socrates is similar to Plato” to demonstrate how seven of these ten classifications, which title the first section of Aristotle's *Organon*, were unnecessary. Examples of these classifications of predicates include substance and quantity.  
ANSWER: **categories** [accept **praedicamenta** or **categoriae**]  
[10] This logician put forth a mathematical foundation for Aristotlean logic in *The Mathematical Analysis of Logic*. The only possible values of variables in his namesake algebra are “true” and “false,” which are usually represented with 1s and 0s.  
ANSWER: George **Boole** [accept **Boolean**]  
*<RMP Philosophy/Thought - Smith>*

11. Many characters leave this location in search for Bulkington after he slips out while they were drinking. For 10 points each:  
[10] Name this establishment run by Peter Coffin. The narrator of the work in which this establishment appears can't decide whether a painting in it is the “Black Sea in a midnight gale” or a “Hyperborean winter scene” before deciding it depicts a “Cape Horner in a great hurricane.”  
ANSWER: The **Spouter Inn**  
[10] This lodger of The Spouter Inn is first seen when he returns to his room after attempting to sell embalmed heads. This man's tattoos are compared to a counterpane after the narrator wakes up with this man's arm around him.  
ANSWER: **Queequeg**  
[10] Queequeg and Ishmael lodge together in The Spouter Inn at the beginning of this novel by Herman Melville.  
ANSWER: ***Moby-Dick***  
*<Literature American - McCullar>*

12. Early examples of institutions that may be described by this term include Charles Spurgeon's Metropolitan Tabernacle in London. For 10 points each:  
[10] Give this specific term for Protestant churches at which, according to one definition, more than 2,000 people regularly worship.  
ANSWER: **megachurch**  
[10] The largest megachurch in America is Lakewood Church in Houston, whose pastor Joel Osteen is often seen as a major proponent of this teaching that people can attain financial and physical well-being by demonstrating strong faith in God.  
ANSWER: **prosperity** theology [or **prosperity**; accept **health and wealth** gospel, gospel of **success**, **seed** gospel, or **seed** faith]  
[10] The largest megachurch in the world, which can accommodate 830,000 worshippers, is located in this country, where the personalist Unification Church was founded.  
ANSWER: **South Korea** [or **Republic of Korea**]  
*<RMP Christian/Bible Religion - Suh>*

13. In 2014, the collective HOWDOYOUSAYYAMINAFRICAN? **(“How do you say yam in African?”)** withdrew from one of these events in part due to a piece by Joe Scanlan in which he hired people to play the fictional black artist Donelle Woolford. For 10 points each:  
[10] Name these events, which occur every other year at a namesake museum. Hannah Black criticized one of these events after they displayed Dana Schultz' painting *Open Casket*, which was inspired by the lynching of Emmett Till.  
ANSWER: **Whitney Biennial**  
[10] The Whitney Museum displays contemporary art at its namesake Biennials in this city. The Met and the MOMA are also in this city.  
ANSWER: **New York** City  
[10] In 1987, this activist group protested the Whitney Biennial for its underrepresentation of women and non-white artists. This group published a poster asking the question “Do women have to be naked to get into the Met. Museum?”  
ANSWER: **Guerrilla Girls**  
*<Arts Painting - French>*

14. The magnitude of this phenomenon is *smaller* for downfield nuclei, so the chemical shift is larger. For 10 points each:  
[10] Name this phenomenon, in which a magnetic field is produced in opposition to an applied magnetic field. The magnitude of this phenomenon increases in regions with higher electron density.  
ANSWER: diamagnetic **shielding** [or local diamagnetic **shielding**]  
[10] Diamagnetic shielding is responsible for chemical shift, which is measured in this technique. Common types of this technique are based on hydrogen-1 and carbon-13, and it uses magnetic fields to identify organic compounds.  
ANSWER: **nuclear magnetic resonance** spectroscopy [or **NMR** spectroscopy, **magnetic resonance** spectroscopy, or **MRS**]  
[10] Because the electronegativity of the central atom is so low, the protons on this compound are heavily shielded, so it is a convenient reference compound for proton-NMR. The chemical shift of this compound is defined to be zero.  
ANSWER: **tetramethylsilane** [or **TMS**]  
*<Science Chemistry - French>*

15. The Dutch engineer Cornelius Vermuyden used wind pumps to accomplish this project. For 10 points each:  
[10] Name this process that opened much of East Anglia up to settlement. A book by Eric Ash titled for this process is the leading work on it.  
ANSWER: **draining** of the **fens**  
[10] The Pontine Marshes, which are located outside this city, were drained in the 1930s to prevent malaria. The Appian Way traversed the Marshes after leaving this city, its Northern terminus.  
ANSWER: **Rome** [accept **Roma**]  
[10] These structures, the largest of which is Flevoland, were built in the Netherlands, often using dykes, to create more arable land.  
ANSWER: **polder**s  
*<History European 1914-present - Myers>*

16. In the equivalence relation that defines L*p* **(ell-pee)** spaces, two functions are equivalent if the set of points on which they disagree has this property. For 10 points each:  
[10] Name this property. If a set has this property, its complement is said to occur “almost everywhere.”  
ANSWER: **measure zero** [or **null** set; accept any answer indicating that the **measure** or Lebesgue **measure** or **probability** of the set is **zero**; do not accept or prompt on “empty set”]  
[10] A function must be continuous except on a set of measure zero for a form of this operation named for Riemann to be well-defined. This operation is the inverse of differentiation by the fundamental theorem of calculus.  
ANSWER: **integration** [or word forms such as **integral**]  
[10] A canonical example of an uncountable set of Lebesgue **(luh-BEG)** measure zero is this set, which has positive measure variants that are often called “fat.” This set has measure zero because it loses one-third of its total length at every step in its construction.  
ANSWER: **Cantor** set [or **Cantor** ternary set; or **Cantor** middle-third set]  
*<Science Math - Morrison>*

17. A mayor nicknamed the “dictator” of this city, Orville Hubbard, used techniques to keep this city segregated like having the fire department perform “checks” at black-owned houses every hour until the inhabitants left. For 10 points each:  
[10] Name this city whose newspaper, the *Independent*, published a series of articles about “the international Jew” after its purchase by an anti-Semitic businessman.  
ANSWER: **Dearborn**, Michigan [do NOT accept **Detroit**]  
[10] On Henry Ford's direction, the *Dearborn Independent* published one of the first English translations of this text, which purported to be a Russian spy's transcript of a meeting of Jewish community leaders.  
ANSWER: *The* ***Protocols of the Elders of Zion***  
[10] Dearborn is regarded as a center of this immigrant community in the US due to Ford's recruiting of members of sects such as the Maronites and Chaldeans to work at his plants. Due to the pre-existing prevalence of this immigrant group, Dearborn later became a top destination for Muslim immigrants more generally.  
ANSWER: **Arab**-Americans  
*<History American (1865-1945) - Myers>*

18. In this play, one character interrupts a recitation with claims of having a toothache. That character also multiplies two ten-digit numbers. For 10 points each,  
[10] Name this play in which the Professor kills his student out of frustration at the end of the play, just as he did to all his previous students.  
ANSWER: *The* ***Lesson*** **(or *La Lecon*)**  
[10] *The Lesson* is a play by this author of *The Bald Soprano* and a play in which all of Berenger's friends turn into the title animal, *Rhinoceros*.  
ANSWER: Eugene **Ionesco**  
[10] Ionesco published another play titled for the French translation of this first name and subtitled “how to get rid of it”. A Peter Shaffer play about a composer's jealousy and eventual murder of his rival is titled for this first name.  
ANSWER: **Amadeus** [accept ***Amedée****, or How to get rid of it*]  
*<Literature European - Santanam>*

19. This city was slated to fight an army from Alba Longa, but the Alban leader Mettius Fufetius betrayed Rome after waiting in the mountains to see if Rome would lose its battle with the Veientes. For 10 points each:  
[10] Identify this city, whom Romulus also defeated by storming its gates. A wooden stadium in this city built by Atulius burned down in 27 AD.  
ANSWER: **Fidenae**  
[10] According to Livy, the second war with the Fidenae occurred during the reign of Tullus Hostilius, whose reign saw the birth of these triplet warriors. Livy also detailed their fight with the Curiatii during a war against the Albans.  
ANSWER: **Horatii**  
[10] Tullus pursued a militant foreign policy partially inspired by his grandfather Hostus. Hostus had been part of the founding generation of Rome, who kidnapped the women of these people in a namesake “rape.” Those women later engage in an “intervention” to stop a battle between the Romans and these people.  
ANSWER: **Sabine**s [or **Sabini**]  
*<RMP Greek/Roman Myth - Hijazi>*

20. This director's use of two peasants to frame one of his films was imitated by George Lucas' similar use of C-3P0 and R2-D2. For 10 points each:  
[10] Name this director of *The Hidden Fortress*, *Yojimbo*, and *Seven Samurai*.  
ANSWER: Akira **Kurosawa**  
[10] These transitions link a series of bureaucrats who refer a group of women to other departments in a circular process in Kurosawa's *Ikiru*. *Star Wars* also borrows Kurosawa's trademark use of the “horizontal” type of this transition.  
ANSWER: **wipe**s  
[10] *The Phantom Menace* contains a homage to this sequence from another movie throughout which golden dolphins are tipped over. Judah triumphs over Stephen Boyd's character in this sequence, the only one in its film not directed by William Wyler.  
ANSWER: the **chariot** race from ***Ben-Hur*** [both film and word “chariot” or clear equivalent are required; prompt on partial]  
*<Arts Film - Smith>*

21. Barbara Johnson suggested that the critical styles of Barthes and Lacan owe much to this author's “critical poems” in a translator's note to his collection *Divagations*. For 10 points each:  
[10] Name this Symbolist poet who mentored Paul Valery while leading the *Mardistes*. The speaker opines “These nymphs, I would perpetuate them” to open his eclogue “The Afternoon of a Faun.”  
ANSWER: Stéphane **Mallarmé** **(MAL-har-MAY)**  
[10] Quentin Meillassoux determined that this Mallarme poem's “unique Number, which cannot be another” is 707 in a study entitled *The Number and the Siren*. The original typography of this poem features several typefaces and liberal use of white space.  
ANSWER: *A* ***Throw of the Dice*** *will Never Abolish Chance* [or ***Un coup de dés*** *jamais n'abolira le hasard*; accept any translation mentioning a **dice throw** or **dice roll**]  
[10] Mallarme praised this poet's use of “the bare blade of his mind” in a poem named for his tomb. Edouard Manet illustrated Mallarme's translation of this poet's “The Raven.”  
ANSWER: Edgar Allan **Poe** [accept “The **Tomb of Edgar Poe**”]  
*<Literature European - Smith>*