**2019 National All-Star Academic Tournament**

**Round 8 – Tossups**

1. This thinker criticized the Kantian view that space is a priori and subjective in *An Essay on the Foundations of Geometry.* A paper by him discusses several so-called “contradictions,” such as “the least integer not nameable in fewer than nineteen syllables,” which he resolves with a hierarchy of apparent variables. This thinker jokingly stated that Hegelians would synthesize a figure such that he “wears a wig,” and later classified occurrences of phrases in propositions as primary or secondary while attempting to refute a theory by Meinong. He used the Axiom of Reducibility to support his Theory of Types in a book co-authored with his former teacher. A later section of that book focusing on cardinal arithmetic contains a proof that 1 + 1 = 2. For 10 points, name this British logician who, along with Alfred Whitehead, wrote *Principia Mathematica.*  
ANSWER: Bertrand Arthur William **Russell**  
*<RMP Philosophy/Thought - Lucas>*

2. N. W. Rowell went on a tour of the country seeking opinions about this organization, leading to its nationalization in 1919. Hollywood made hundreds of films about members of this organization, including the Jeanette MacDonald and Nelson Eddy vehicle *Rose Marie*. In 1874, a predecessor to this group traveled some 800 miles to prevent a trade of buffalo skins for whiskey at “Fort Whoop-Up.” In the 1940s, a ship owned by this organization called the *St. Roch* became the first vessel to make the west-to-east journey through the Northwest Passage. 250 members of this organization maintained order during an 1890s gold rush. Lawrence W. Herchmer modernized this force in the 1880s following a rebellion led by Louis Riel. This force has been overseen by a civilian board since scandals in the administration of Justin Trudeau. For 10 points, name this red-jacketed, horse-riding federal police force in Canada.  
ANSWER: **Royal Canadian Mounted** Police [or **Mounties**; or **RCMP**; or Royal **North West Mounted** Police]  
*<History American (1865-1945) - Bentley>*

3. Pioneering botanist Eugenius Warming studied the xeric vegetation at this country's Lagoa Santa area as part of the first floristic description of a savanna-like biome unique to this country. In this country, a narrow transitional region called the *agreste* separates the coastal *zona de mata* from much drier inland regions. The wood traditionally used for violin bows comes from this country, and carnauba wax comes from a species of endemic palm tree that is a symbol of this country's Ceará state. Major ecoregions of this country include the *cerrado* and the thorny *caatinga* scrublands, which form part of its backlands, or *sertão*. The cities of Salvador and Recife are the largest in the states of Bahia and Pernambuco found in this country's Northeast. For 10 points, name this country that contains most of the Amazon rainforest.  
ANSWER: **Brazil**  
*<Geography World - Kothari>*

4. Ignoring multiplicative constants, an input function *f* of *t* is convolved with this function of *t* by the Hilbert transform. This function of *p* plus this function of *q* must equal one to apply Hölder's inequality on the spaces Lp **(ell-pee)** and Lq **(ell-q)**. The Möbius transformation whose corresponding matrix has first row (0,1) **(zero comma one)** and second row (1,0) **(one comma zero)** is simply this function. This is the only term in a Laurent expansion whose contour integral around the unit circle is nonzero, and hence the coefficient multiplying this term is called the residue. This function of *x* times the sine of *x* gives the sinc **(sink)** of *x*, whose limit at zero equals one by a famous application of the squeeze theorem. On the complex unit circle, this function of *z* equals the conjugate of *z*, since this function of “*e* to the *i* theta” is “*e* to the negative *i* theta.” For 10 points, name this function whose antiderivative is the natural logarithm.  
ANSWER: **reciprocal** [accept word forms; or multiplicative **inverse**; or **one over** *x*; or **one over pi *x***; or *x* **to the negative one**; accept any other letter in place of *x*]  
*<Science Math - Morrison>*

5. This author wrote a short story in which a thief returns a dropped parcel of food and then breaks into a house to steal jewelry only to find his mother there. In one of this author's novels, a woman suspects her husband of having an affair with Nancy, who then escapes to Canada. This author of “A Burglar's Christmas” also wrote a short story in which Paul steals $1000 from a Pittsburgh bank to fulfill his dream of being prosperous. This author of *Sapphira and the Slave Girl* and “Paul's Case” also wrote a work in which Thea Kronberg rises to opera stardom. Carl Linstrum marries Alexandra Bergson after the death of Emil in this author's most famous work. For 10 points, name this author who wrote *The Song of the Lark* and *O Pioneers!* as part of the Great Plains trilogy.  
ANSWER: Willa **Cather**  
*<Literature American - Santanam>*

6. The Kalash religious festival of Chilam Joshi, during which people look for spouses to elope with, features this activity as its primary ritual. The apocryphal Protoevangelium of James narrates that Mary did this in front of the ark of the covenant at the presentation. The town of Chidambaram is the location of a temple that marks where one god did this. A “Circle” variety of this ritual activity is a devotional practice in the Church of England. A Hawaiian ritual honoring Pele that is centered on this activity lends its name to a modern toy. The “Nataraja” is a common depiction of the Hindu god Shiva performing this action within an arc of flames. For 10 points, name this activity banned by many conservative Protestant sects, which involves rhythmic motion of the body.  
ANSWER: **dance** [or **dancing**; prompt on answers of playing music with “for the purpose of what other activity?”; anti-prompt on whirling before mention]  
*<RMP Non-Christian/Bible Religion - Marvin>*

7. As the lead singer of a band called “Ugly Rumours”, this leader patterned his aesthetic after Mick Jagger. During his campaigns, this leader emphasized the need to appeal to voters like an electrician he nicknamed “Mondeo Man”. This leader's foreign secretary, Robin Cook, coordinated a military intervention that restored Ahmad Tejan Kabbah to office. This leader's foreign policy was criticized in the Chilcot Report. This leader shifted his party's ideology after two electoral defeats under Neil Kinnock and listed his first three priorities in office as “Education, education, education”. This leader intervened in Kosovo and Sierra Leone and signed the Good Friday Agreement on behalf of Britain before being succeeded in 2007 by Gordon Brown. For 10 points, name this “New Labour” British Prime Minister during most of the 2000s.  
ANSWER: Tony **Blair**  
*<History European 1914-present - Myers>*

8. One work in this genre depicts a man in black sharing a snow-covered umbrella with a woman in white, characterizing those lovers as a “crow” and a “heron.” An artist in this genre depicted caricatures as scribblings on a wall to circumvent the ban on using this genre to depict actors. A work in this genre that depicts a low-ranking “gun” prostitute biting her handkerchief exemplifies its artist's characteristic portraits of large-headed women. In a work in this genre, thin gray lines represent the “sudden shower” of rain upon travelers crossing a wooden footbridge. An artist used 53- and 69- work series in this genre to depict the stations on two roads leading out of his country's capital. The arrival of Prussian blue allowed an artist in this genre to use that pigment for a print of a “great wave.” For 10 points, name this genre of Japanese prints practiced by Hiroshige and Hokusai.  
ANSWER: **ukiyo-e** [or pictures of the **floating world**; accept **bijin-ga** or **okubi-e**; prompt woodcut, woodblock, or ink painting; prompt on print before mentioned]  
*<Arts Painting - Myers>*

9. A polymer of this compound is added to opioids to reduce their adverse gastrointestinal side effects in naloxegol. Shell's OMEGA process first reacts oxirane with carbon dioxide before hydrolysing the resulting carbonate to generate this compound. The co-polymerization of this compound and terephthalic **(TUH-rep-THALL-ick)** acid generates the thermoplastic PET. This compound can be added to carbonyls to protect them via the formation of a dioxolane group. This compound can be produced by the base-catalysed ring opening of ethylene oxide. Poisoning with this simplest vicinal diol is often treated with ethanol. For 10 points, name this common antifreeze compound, a two-carbon diol.  
ANSWER: **ethylene glycol** [or **ethane-1,2-diol**, accept **polyethylene glycol** or poly**ethylene oxide** or **PEO** or **PEG** or **oxirane** before “OMEGA”]  
*<Science Chemistry - MacAulay>*

10. This novel shares its title with a fictional poem opening “re-enacting with reverent attention / the universal chord”, written during its protagonist's “student years”. This novel is framed as a biography of its protagonist compiled by a man who rails against the “Age of the Feuilleton **(fuh-ih-tawn)**”. A series of vignettes framed as posthumous publications by the protagonist of this novel imagine him as figures including “The Rainmaker” and “The Father Confessor”. After being tested by the Music Master, this novel's protagonist studies at Waldzell with Plinio Designori. This novel is set in the fictional country of Castalia, considered an allegory for the author's adopted homeland of Switzerland. This novel's protagonist succeeds Thomas van der Trave as the Magister Ludi of the title activity. For ten points, name this novel about the education of Joseph Knecht written by Hermann Hesse.  
ANSWER: *The* ***Glass Bead Game*** [or *Das* ***Glasperlenspiel***, accept ***Magister Ludi*** before mention]  
*<Literature European - Krol>*

11. At *Transfigured Night*'s 1902 premiere, an audience member compared Schoenberg's piece to a “smeared” version of the still-wet score of this opera. Motifs in this opera were numbered in a book on it by Roger Scruton. The cadences introduced in the prelude to this opera are not resolved until the finale of act three in a pioneering example of harmonic suspension. A dissonant cry of “Rette Dich” interrupts a half-hour duet in the second act of this opera, which is often viewed as signaling the end of common practice harmony. Though it is not by Donizetti, a love potion foils a plan to marry the female lead to King Marke in this opera. A diminished seventh oddly spelled **(read slowly, with pauses)** “F, B, D-sharp, G-sharp” is named for the *heldentenor* role of this opera. For 10 points, the “Liebestod” closes what Richard Wagner opera about a pair of Arthurian lovers?  
ANSWER: ***Tristan und Isolde*** [or ***Tristan and Isolde***; or ***Tristan and Isolda***; or ***Tristan and Ysolt***]  
*<Arts Opera - Smith>*

12. A source from which these objects were harvested for the Aztec court was a building in Tenochtitlan called the *totocalli*. Prisoners of war intended for sacrifice would be given clubs made of these objects to use during ritual combat. According to Miguel León-Portilla, these objects were conventionally referenced along with jade in a synecdoche for great value in “flower songs.” Artists who worked with these objects were known as amantecas. The Aztec used these objects to decorate ceremonial shields, and along with jade and gold, these things were the most common medium of taxation in the Aztec Empire. The Museum of Ethnology in Vienna currently houses a headdress made of these objects that was worn by Moctezuma. A temple at Teotihuacan is named for its sculptures of a “serpent” covered in these objects. For 10 points, name these objects that were taken from quetzals and other birds.  
ANSWER: **feather**s [accept quetzal **plume**s]  
*<History World - French>*

13. The anticancer drug letrozole is used to inhibit an enzyme that adds this property to its substrate through a series of hydroxylation reactions followed by a single elimination. The shikimate pathway is responsible for the biosynthesis of compounds with this property. A class of molecules with this property found in the interstellar medium form the basis of the PAH world hypothesis of the origin of life. Exemestane inhibits an enzyme that confers this property on androgens in the synthesis of estrogens. Amino acids with this property are used in protein quantification since they absorb light at 280 nanometers. This property, possessed by tryptophan, tyrosine and phenylalanine is found in cyclic and planar molecules with 4n+2 pi electrons according to Huckel's rule. For 10 points, name this property possessed by benzene.  
ANSWER: **aromatic**ity [prompt on hydrophobic or nonpolar]  
*<Science Biology - Rao - Pothuraju>*

14. In this story, a character refers to her reflection as a “charming girl in the mirror” while admiring her daisy-trimmed hat. A woman comments on the distaste of the combination of egg and olive in this story after she finds an envelope behind a dining room clock. A woman in this story marvels at a man who stoops down to smell a sprig of lavender, and that woman later appreciates a group of men's use of the word “matey.” That woman's mother asks, “You wouldn't like a logical mother, would you?” after ordering an excessive amount of calla lilies in this story. Leftover cream puffs and sandwiches are placed in a basket that a woman in this story delivers to Scott's widow, and after doing so, that woman asks her brother Laurie, “Isn't life…?” For 10 points, name this story in which Laura Sheridan plans the title event, by Katherine Mansfield.  
ANSWER: “The **Garden Party**”  
*<Literature World - Husar>*

15. Chernikov et al set an upper limit on the mass of the photon using a null test of this equation. The London penetration depth is derived by solving a second order differential equation that arises when substituting this equation into the second London equation. Taking the divergence of both sides of this equation's original form violates the continuity equation for electric charge. Taking the curl of both sides of this equation leads to the wave equation for the magnetic field. In its differential form, this law states that the current density is proportional to the curl of the B-field. Maxwell corrected this law's original formulation by adding a term for displacement current. For 10 points, name this one of Maxwell’s equations that is named for a French physicist, the magnetic analog of Faraday's law.  
ANSWER: **Ampere**'s Law  
*<Science Physics - French>*

16. This composer's opus 3, which includes a serenade named for him, was likely written by his obsessive admirer Roman Hoffstetter. One piece by this composer received its nickname from a passage in which the first violin plays the notes D and A in unison with a technique called *bariolage*. An opus 10 collection **(emphasize)** *dedicated* to this composer contains pieces nicknamed “Spring” and “Hunt.” In a piece by this composer, a sudden forte sixteenth note closes a rondo after a grand pause, which is followed by a violin playing the A theme with extra rests every two bars. This composer of “The Frog” is the dedicatee of a quartet nicknamed “Dissonance.” This composer's Opus 20 collection of chamber pieces is named for its cover image. For 10 points, name this composer of “The Joke” and a set of pieces nicknamed “Sun,” which were among the 68 string quartets created by this “father” of that genre.  
ANSWER: Franz Joseph **Haydn**  
*<Arts Music - Smith>*

17. After Adam the Forester was shot in the neck with an arrow, he was healed by drinking the blood of this saint. Local legends state that this saint dug a well when he disliked the taste of his town's water. According to the *Dover Chronicle*, this saint appeared alongside St. George before the Battle of Lewes to bless the army of Simon de Montfort. In Edward Grim's account of this saint’s martyrdom, one of his murderers declared “We can leave this place… he will not get up again.” The cult of this saint was immensely popular in the late medieval era, as illustrated by a 14th century text framed as a journey to visit this “hooly blisful martir.” This saint was apocryphally killed after four knights misinterpreted the command “Will no one rid me of this turbulent priest?” For 10 points, name this Archbishop of Canterbury who was murdered by knights loyal to Henry II.  
ANSWER: Saint Thomas à **Becket** [or **Thomas of Canterbury**; prompt on Saint Thomas]  
*<RMP Non-Greek/Roman Myth - French>*

18. A rebellion among members of this ethnicity was begun by an auctioneer who attacked assessors attempting to apply a tax based on how many windows houses had. A slave named Kwamena led a rebellion in a region of Louisiana named for people of this ethnicity. A plan to name a prince of this ethnicity the King of the United States was proposed in 1786 by Nathaniel Gorham. The First Bank of the United States was headquartered in a neighborhood of Philadelphia named for members of this ethnicity. The first speaker of the house of representatives, a man of this ethnicity, rejected a proposal to make its language official in the United States. A man of this ethnicity published a “Blue book” during the American Revolution that would be used for army training until the Civil War. For 10 points, name this ethnicity, members of which included Frederick Muhlenberg and Baron von Steuben.  
ANSWER: **German**-Americans [accept **Prussian**s, **Pennsylvania Dutch**, **Dutch**, **Deutsch**]  
*<History American (pre-1865) - Myers>*

19. *Description acceptable.* Frank Knight separated this behavior from a similar behavior named for ambiguity that is demonstrated in the Ellsberg Paradox. Miles Kimball defined a quantity to measure this behavior and proved that a theory of it is isomorphic to the theory of precautionary saving. Agents with this behavior prefer lowering both the numerator and denominator of the Sharpe Ratio. Taking the negative of the second derivative of utility over the first derivative of utility at some point is positive for agents with this type of behavior; that equation defines the Arrow–Pratt measure for it. This behavior, which is preferred by agents with concave utility functions, is characterized by preference for diversification and avoidance of zero-mean lotteries. For 10 points, name this type of behavior that prefers safe payoffs over unsafe payoffs for the same expected value.  
ANSWER: **risk aversion** [accept word forms; accept descriptive answers about **avoiding** or **minimizing** **risk**]  
*<Social Science Economics - Shanmugam>*

20. The Harvard Crimson quoted a poem in this form in which a man “put his mother… in the sausage machine” to mock Langford Reed's attempt to create a collection of “decent” poems in this form. A description of “a shower of quotes / From the Sanskrit and Dante” appears in the last of five poems that rewrite *The Wasteland* in this form by Wendy Cope. A poem in this form describes a “cautious” man who “dined on one pea and one bean.” Scholars such as Gershon Legman and George Bernard Shaw argue that true poems in this form are necessarily bawdy. A young lady plays a harp with her chin in one of several nonsensical poems in this form by Edward Lear. These quintains have a primarily anapestic meter and an AABBA **(“A-A-B-B-A”)** rhyme scheme. For 10 points, name these brief, humorous poems that are named for a town in Ireland.  
ANSWER: **limerick** [prompt on quintain before mention]  
*<Literature British Non-Shakespeare - French>*

21. Alloys such as nitinol possess the “super”-form of this property and Martensite possesses a “pseudo” form of this property due to the Bain Correspondence. If the gradient of the entity causing this phenomenon solely describes the response, then it possesses the Cauchy variety of this property. The ability of materials to absorb energy due to this property is termed the resilience. The interior of hadrons is probed in the “deep” scattering named for the opposite of this property. This adjective describes all collisions between particles in an ideal gas, as well as the linear region of a deformation plot. A coefficient of restitution of 1 indicates a perfect version of property. For 10 points, give this adjective that describes a collision where the total kinetic energy of the colliding bodies remains the same as well as materials like rubber which maintain their shape after deformation.  
ANSWER: **elastic** [ or **superelastic** before “super”]  
*<Science Physics - MacAulay>*

**2019 National All-Star Academic Tournament**

**Round 8 – Bonuses**

1. A version of this sculpture with the drapery around the heads of the central figures removed was gifted to Claude Debussy, who kept it in his studio. For 10 points each:  
[10] Name this sculpture in which a man standing on one foot leans in as if to kiss a woman whose dress drapes to the side. It was possibly inspired by the artist Camille Claudel's burgeoning love affair with a mentor.  
ANSWER: *The* ***Waltz*** [or *The* ***Waltzers***; or *La* ***valse***; or *Les* ***valseurs***]  
[10] Camille Claudel's *The Waltz*, like her mentor's *The Thinker*, was cast first in plaster and then in this medium. Donatello's *David* was also made with this metal alloy.  
ANSWER: **bronze**  
[10] The 1,250 ton Thunder Stone is the pedestal of this rococo sculptor's *The Bronze Horseman*. His student and daughter-in-law Marie-Anne Collot likely made the head of Peter the Great for that statue.  
ANSWER: Étienne Maurice **Falconet** **(“FALCON”-ay)**  
*<Arts Sculpture - Smith>*

2. Six of the seven “horrid” novels in this genre that Isabella Thorpe recommends to Catherine Morland in Jane Austen's *Northanger Abbey* were published by Minerva Press. For 10 points each:  
[10] Name this genre developed in the late 18th century exemplified by Matthew Lewis's *The Monk* and Ann Radcliffe's *The Mysteries of Udolpho*. Its hallmarks included supernatural themes and exotic settings like Italy.  
ANSWER: **Gothic** literature  
[10] Gothic literature was closely tied to a genre of literature named by this adjective, which emphasized the passionate feelings of its characters. A Laurence Sterne travelogue has this adjective in its title.  
ANSWER: **sentimental** literature [accept *A* ***Sentimental*** *Journey Through France and Italy*]  
[10] William Beckford parodied the novels of Minerva Press and other sentimental literature in *Azemia*, but is better known for this Gothic novel whose title caliph sacrifices fifty children, among other depravities, as part of a contract with the Giaour.  
ANSWER: ***Vathek***  
*<Literature British Non-Shakespeare - Kothari>*

3. This particle fits at the apex of the decuplet of all the baryons with spin three-halves. For 10 points each:  
[10] Name this baryon, which was detected in a bubble chamber at Brookhaven in 1964. The collision of a K-minus kaon and a proton produces one of these particles and two other kaons.  
ANSWER: **omega-minus** baryon [prompt on Omega baryon by asking “what charge does it have?”  
[10] The omega-minus baryon appears at the bottom of the baryon decuplet because it has a value of negative three for this quantity. Murray Gell-Mann proposed this quantity to explain the anomalously slow decay of kaons and hyperons.  
ANSWER: **strangeness** [do not accept or prompt on “strange”]  
[10] Strangeness can be defined by counting the quantity of the “strange” variety of these particles, which are bound together by the strong force to form hadrons and mesons.  
ANSWER: **quark**s [accept **anti-quark**s]  
*<Science Physics - French>*

4. This man served as the only leader of the Septinsular Republic before becoming Russia's Foreign Minister. For 10 points each:  
[10] Name this leader who cautioned Prince Alexander Ypsilantis against starting one revolt before becoming the first Prime Minister of the country that revolt established.  
ANSWER: Ioannis **Kapodistrias** [accept **John** for Ioannis]  
[10] After Kapodistrias was assassinated, Greece became a kingdom led by Otto, who introduced a period known as “rule by” people from this German state, where a later ruler built the Castle of Neuschwanstein.  
ANSWER: **Bavaria** [accept **Bayern**]  
[10] Kapodistrias became a supporter of independence for Greece from this empire after its forces lynched the Greek Orthodox patriarch of its capital, Constantinople.  
ANSWER: **Ottoman** Empire  
*<History European 1400-1914 - Myers>*

5. In this painting, the title saint sleeps in the foliage beneath a naked Christ child and the Virgin Mary. For 10 points each:  
[10] Name this painting. At the front of this painting, John the Baptist holds a reed cross and twists to his left as he contorts his arm and extends his index finger upwards.  
ANSWER: ***Vision of Saint Jerome***  
[10] The *Vision of Saint Jerome* is a work by this Mannerist, whose other depictions of strange anatomy include an implausibly long Christ child in his *Madonna with the Long Neck*.  
ANSWER: **Parmigianino** [or Francesco **Mazzola**]  
[10] This other Mannerist painted abnormally contorted fingers in his *Portrait of a Young Man with a Book*. In this artist's most famous painting, a young boy kisses his mother and fondles her breast in front of an old woman who may represent syphilis.  
ANSWER: **Bronzino** [or **Agnolo** di Cosimo]  
*<Arts Painting - French>*

6. Before it narrowly failed, one state legislature argued against one proposal to abolish this by claiming that if it had not existed, Jesus would not have been able to die for mankind's sins. For 10 points each:  
[10] Name this policy whose aim is carried out in the United States using lethal injections, firing squad, or gas chambers.  
ANSWER: **death penalty** [accept **capital punishment**]  
[10] That attempt to repeal the death penalty failed in this state, where eccentric billionaire Foster Friess lost a primary challenge to now-governor Mark Gordon, who succeeded Matt Mead.  
ANSWER: **Wyoming**  
[10] Andru Volinsky, a member of this New Hampshire-unique governing body, accused governor Chris Sununu of violating the state constitution for not consulting it before vetoing a bill to repeal the death penalty. This five-member body controls the state national guard and can pass vetoes of its own.  
ANSWER: **Executive Council** of New Hampshire  
*<Current Events US - Myers>*

7. Apocryphally, this mathematician worked so little with actual numbers that when asked to give an example of a prime, he gave the composite number 57. For 10 points each:  
[10] Name this mathematician and radical pacifist. He left academic life in part due to finding out that his institution was funded by the military.  
ANSWER: Alexander **Grothendieck** **(GROH-ten-dik)**  
[10] Alexander Grothendieck published his “Elements of Algebraic Geometry” in this language. The fundamental group was defined in a paper in this language that has the Latin title “Analysis Situs.”  
ANSWER: **French** [or **Français**] [“Analysis Situs” is by Henri Poincaré.]  
[10] Grothendieck's algebraic geometry is largely built on the Nullstellensatz, a theorem named for this mathematician. This mathematician posed 23 unsolved problems in 1900 that greatly influenced the direction of 20th century mathematics.  
ANSWER: David **Hilbert**  
*<Science History of Science - French>*

8. In one scene from this television show, an actor playing Johnnie Cochrane accuses the prosecution of “insulting the intelligence and integrity” of a “predominantly black jury” by suggesting that they might be manipulated by his “African tribal tie.” For 10 points each:  
[10] Name this sketch comedy show. Norm Macdonald was fired from this show after joking that “Murder is now legal in the state of California” when O.J. Simpson was acquitted.  
ANSWER: **Saturday Night Live** [or **SNL**]  
[10] One memorable soundbite from the O.J. Simpson trial was the phrase “if it doesn't fit, you must acquit,” which was spoken in reference to this bloody article of clothing that, supposedly, was too small for O.J. to have worn during the murder.  
ANSWER: the **glove**  
[10] This Japanese-American judge during the O.J. Simpson trial was frequently the target of racial invective during it. He controversially allowed TV networks to film the trial, thus amplifying its media impact.  
ANSWER: Lance **Ito**  
*<History American (1945-present) - French>*

9. Pneumatology is the theological study of this figure, who is also known as Paraclete in the Gospel of John. For 10 points each:  
[10] Name this figure that did not allow Paul and Silas **(“SYE-las”)** to travel to evangelize in Asia. This third person of the Trinity descended upon the apostles at Pentecost.  
ANSWER: **Holy Spirit** [or **Holy Ghost**; accept **Spirit of Christ**]  
[10] In the Pentecost, the Holy Spirit imbued the apostles with this spiritual gift. A form of this gift often practiced in Pentecostal traditions consists of fluid vocalizing of speech-like syllables that generally lack meaning in known languages.  
ANSWER: speaking in **tongues** [or **glossolalia**]  
[10] One of the spiritual gifts discussed in 1 **(“first”)** Corinthians 12 is this one, which Paul wrote was necessary for people to practice tongues publicly within churches.  
ANSWER: **interpret**ation of tongues  
*<RMP Christian/Bible Religion - Suh>*

10. One member of this family wrote a Gothic novel in which Svengali hypnotizes the tone-deaf Trilby and makes her a talented singer. For 10 points each:  
[10] Name this family, another member of which wrote a Gothic novel which opens “Last night I dreamt I went to Manderley again.”  
ANSWER: du **Maurier** family [George and Daphne du **Maurier**]  
[10] This Daphne du Maurier story is sometimes read as an allegory for the Blitz. Nat Hocken and his family are terrorized by normally docile fowl in this story which, like du Maurier's *Rebecca* and *Jamaica Inn*, was adapted into an Alfred Hitchcock film.  
ANSWER: “The **Birds**”  
[10] This author's story “The Demon Lover” is a Gothic tale set after the Blitz. This Irishwoman depicted the aftermath of the Blitz in the novel *The Heat of the Day*.  
ANSWER: Elizabeth **Bowen**  
*<Literature British Non-Shakespeare - Smith>*

11. “The strong do what they can, while the weak suffer what they must” is a quote that Thucydides attributes to Athenians in this dialogue. For 10 points each.  
[10] Name this dialogue in which the citizens of its namesake island argue for why it should be independent from Athens. It ends with Athenians killing all of the island's inhabitants.  
ANSWER: **Melian** Dialogue [accept **Melos**]  
[10] Thucydides recorded what he felt needed to be said in the situations he described, rather than what was actually said, in contrast to this historian from Halicarnassus, who is known as the “father of history” and largely wrote factual transcripts of speeches.  
ANSWER: **Herodotus** of Halicarnassus  
[10] Another dialogue occurs in Thucydides history of the Peloponnesian War concerning this city on the island of Lesbos. The Athenian politician Cleon wanted this city's population to be executed, while the Athenian politician Diodotus argues for the lives of the people of this city.  
ANSWER: **Mytilene** [accept **Mytilenean Debate**]  
*<History European to 1400 - Jankov>*

12. Wining Boy recounts “It felt like the longer I stood there the bigger I got” after calling out to these figures at a railway crossing. For 10 points each:  
[10] Name these figures, supposedly the spirits of Boy Charles and four hobos who were burnt alive by a lynch mob. They are blamed for a series of suspicious deaths, including that of the former slave-owner Sutter, who fell down a well before the beginning of the play in which they appear.  
ANSWER: the **Ghosts of the Yellow Dog** [prompt on ghosts]  
[10] The Ghosts of the Yellow Dog are repeatedly invoked in this play, which takes place during the 1930s. Boy Willie unsuccessfully tries to convince Berniece to sell the title object of this play so that he can buy Sutter's old land.  
ANSWER: *The* ***Piano Lesson***  
[10] This playwright included *The Piano Lesson* and *Fences* in his ten-play *Pittsburgh Cycle*.  
ANSWER: August **Wilson**  
*<Literature American - French>*

13. A decrease in perfusion past the macula densa stimulates the activation of this pathway. For 10 points each:  
[10] Name this pathway, which can also be activated via baroreceptors in the carotid sinus. The activation of this pathway stimulates juxtaglomerular cells to produce an enzyme that partially names it.  
ANSWER: **renin-angiotensin** system [or **RAS**, accept **renin-angiotensin-aldosterone** system or **RAAS**]  
[10] Since angiotensin II is an extremely potent vasoconstrictor, ACE inhibitors can be used to inhibit a step of the renin-angiotensin system in the treatment of this condition. A resting value of above 130/80 mmHg or 140/90 mmHg is indicative of this condition.  
ANSWER: **hypertension** [accept **high blood pressure**]  
[10] The action of the renin-angiotensin system is opposed by this hormone secreted from the heart. This hormone decreases sodium reabsorption in the collecting duct by inhibiting ENaC.  
ANSWER: **atrial natriuretic peptide** [or **ANP**]  
*<Science Biology - Rombro>*

14. Members of this movement met in the Stray Dog Cafe. For 10 points each:  
[10] Name this movement, who named their journal *Apollon* in opposition to the “Dionysian” symbolists. Mikhail Kuzmin and Osip Mandelstam were members of this Silver Age movement founded by Sergei Gorodetsky and Nikolay Gumilev.  
ANSWER: **Acme**ism [or **Acme**ists; or the **Guild of Poets**]  
[10] This Acmeist, whom Andrei Zhdanov labelled a “harlot-nun,” was once married to Gumilev. She lamented the loss of her son, Lev, to the Great Terror in her *Requiem* and also wrote a *Poem without a Hero*.  
ANSWER: Anna **Akhmatova** [or Anna Andreyevna **Gorenko**]  
[10] Akhmatova uncharacteristically claimed ““Where [this man] is, there is Freedom, Peace, and the grandeur of the earth” in a 1950 poem. After writing an epigram denouncing this “Kremlin Highlander,” Osip Mandelstam was targeted in his Great Purge.  
ANSWER: Joseph **Stalin** [or Joseph **Dzughashvili**]  
*<Literature European - Smith>*

15. In one of his works, this poet laments the events that lead to the creation of women. However, a fragmentary epic poem about Greek heroines by this man was found at Oxyrhynchus. For 10 points each:  
[10] Name this Greek epic poet, the author of the Catalogue of Women. This poet, who wrote around the same time period as Homer, also wrote the *Theogony*, the story of how the gods and universe came to be.  
ANSWER: **Hesiod**  
[10] Unlike the *Theogony*, Hesiod's *Works and Days* portrays two different examples of this goddess. One example promotes war and destruction while the other motivates men to work in the spirit of rivalry.  
ANSWER: **Eris**  
[10] In the *Works and Days*, Hesiod outlines the creation of Pandora, the first woman, as a punishment for Prometheus' back and forth with Zeus. Since Zeus cannot get the upper hand over the clever Prometheus, he marries Pandora to this foolish brother of Prometheus, whose name literally means “hindsight.”  
ANSWER: **Epimetheus**  
*<RMP Greek/Roman Myth - Jankov>*

16. Charles Tilly and Harrison White led the “Harvard Revolution” in the study of these structures. For 10 points each:  
[10] Name these systems with an average path length of five and a half. These systems of interpersonal connections name a class of online services such as Facebook.  
ANSWER: social **network**s  
[10] After studying job hunting, Mark Granovetter wrote a paper titled for “The Strength of” these things that has been cited over 50,000 times. Granovetter analogized people who share this type of interpersonal relationship to “acquaintances” rather than “friends,” and has argued that they create most of a social network's “embeddedness.”  
ANSWER: **weak** ties [or **peripheral** relationships; accept “The **Strength of Weak Ties**”]  
[10] One would share an “absent tie” with this type of figure, but would share a weak tie with this type of figures “consequential” counterpart.” Stanley Milgram identified this figure as a person one could recognize but does not interact with.  
ANSWER: **familiar stranger** [prompt on stranger]  
*<Social Science Sociology - Smith>*

17. This foreign minister of Brazil and son of a prime minister with the same name added formerly French, Argentine, and Bolivian territory to Brazil by annexing Acre and winning two different arbitrations. For 10 points each,  
[10] Name this nobleman credited with formulating the doctrine that has dominated Brazilian foreign policy thought since the early 20th century.  
ANSWER: Jose Maria da Silva **Paranhos** Junior, Viscount of **Rio Branco** [accept either]  
[10] Brazil's frontier was also expanded by these adventurers who conquered Indian territory in the Brazilian interior. They are named for the Portuguese word for “flag”.  
ANSWER: **bandeirante**s  
[10] Another expansion of Brazilian territory, this time at the expense of Paraguay, took place after this war, in which the namesake league of Brazil, Argentina, and Uruguay defeated Francisco Solano Lopez.  
ANSWER: War of the **Triple Alliance** [accept **Paraguayan** War, Guerra de la **Triple Alianza**, Guerra **Guasu**, Guerra do **Paraguai**]  
*<History World - Myers>*

18. The Clebsch-Gordan coefficients arise when performing this operation on two representations and then expressing the result as a sum of irreducible representations. For 10 points each:  
[10] Name this general type of product. For two vector spaces V and W, this product can be calculated by taking the Cartesian product of V and W and quotienting by an equivalence relation that ensures that this product is bilinear.  
ANSWER: **tensor** product [prompt on outer product]  
[10] Tensor products generalize the outer product, which takes two vectors and gives one of these objects. Any linear transformation can be represented by one of these objects.  
ANSWER: **matrix**  
[10] In contrast to the outer product is the inner product, which takes two vectors and gives a scalar. Any inner product space must fulfill this inequality, which states that the absolute value of the inner product of two vectors must be less than the product of the norms of those vectors.  
ANSWER: **Cauchy-Schwarz** inequality [or **Cauchy-Schwarz-Bunyakovsky** inequality, or **Cauchy-Bunyakovsky-Schwarz** inequality]  
*<Science Math - French>*

19. An early example of one of these texts by Alexander of Aphrodisias was titled *On Fate*, which outlined his theory of divine providence. For 10 points each:  
[10] Name this general type of philosophical work. Greek examples of these texts were translated into Arabic by ibn Qurra. Averroes wrote several notable examples of these works, which spread the ideas of a philosopher known as the “first teacher” throught the Islamic world.  
ANSWER: **commentaries** on **Aristotle** [prompt on commentaries by asking “on which philosopher?”]  
[10] Many commentaries analyzed this Aristotle work, in which he attempted to define “substances.” The namesake field of this work is concerned with the nature of existence and is often called “first philosophy.”  
ANSWER: **Metaphysics**  
[10] This other Islamic philosopher also wrote a commentary on Aristotle's *Metaphysics*. This “second teacher” drew on Plato's *Republic* in his *The Virtuous City* and he outlined his five-fold taxonomy of knowledge in *The Book of the Enumeration of the Sciences*.  
ANSWER: al-**Farabi** [or Abu Nasr Muhammad ibn Muhammad **Farabi**]  
*<RMP Philosophy/Thought - French>*

20. This piece's *Lento* third movement features a fortissimo organ solo. For 10 points each:  
[10] Name this symphony based on a film score. Its *alla marcia, moderato* epilogue is sometimes preceded by a diary excerpt reading “I do not regret this journey.”  
ANSWER: ***Sinfonia Antarctica*** [or ***Sinfonia Antartica***; or **Antarctic Symphony**; accept but do not otherwise reveal Ralph **(rafe)** **Vaughn Williams'** Symphony No. **7**]  
[10] The finale of this symphony by the same composer goes from *Andante con moto* to *Maestoso alla marcia* to *Allegro* to *Lento*, and contains an epilogue based on *Tono-Bungay's* last chapter. A harp imitates the Westminster Chimes throughout this symphony.  
ANSWER: A **London** Symphony [accept but do not otherwise reveal Ralph **(rafe)** **Vaughn Williams'** Symphony No. **2**]  
[10] The composer of the aforementioned symphonies, Ralph **(rafe)** Vaughn Williams, wrote a fantasia based on this earlier composer's “Why Fum'th **(fume-eth)** In Fight.” This Elizabethan composer also wrote *Spem in alium*.  
ANSWER: Thomas **Tallis**  
*<Arts Music - Smith>*

21. When discussing his political views, one character in this play claims that “he likes to think of himself as a Citizen of the Universe.” For 10 points each:  
[10] Name this play whose scene resets every time a bell rings after Bill or Betty mess up the romance. This one-act play is part of a collection along with *Words, Words, Words* and *Variations on the Death of Trotsky*.  
ANSWER: ***Sure Thing***  
[10] In David Ives' play *Sure Thing*, Betty is reading this novel, which Bill mistakenly believes to have been written by Ernest Hemingway. In fact, this novel whose first section is narrated by Benjy Compson was written by William Faulkner.  
ANSWER: *The* ***Sound and the Fury***  
[10] *Description Acceptable* At the end of *Sure Thing*, Bill and Betty decide to do this action. In another novel titled for a man who frequently does this action, the stockbroker Binx Bolling watches a Mardi Gras parade with his cousin, Kate.  
ANSWER: **go**ing **to** the **movies** [accept **watch**ing a **movie** or other similar answers; accept specific answers like **watch** a Woody Allen **movie**] **(the novel is *The Moviegoer* by Walker Percy)**  
*<Literature American - McCullar>*