

ACF Regionals 2016: Ben There, Didn't Do That

Edited by John Lawrence, Chris Ray, Max Schindler, and Itamar Naveh-Benjamin

Packet by Dartmouth (Will Alston, Charles Jang, Victor Borza, Anant Mishra), Florida B (Freddy De La Torre, Jacob Murphy, Jonathen Settle, Morgan Walker, Noah Yudewitz)

TOSSUPS:

1. While trying to pull this figure out of a fire, Agnar's brother accidentally stumbles and impales himself on his sword. This figure instructs a hero to dig multiple trenches in order to collect all of Fafnir's blood. A series of statements attributed to this god comprise the *Hávamál*. This god is accidentally tortured by Geirröth in the *Grímnismál*. This god fled in the form of an eagle after obtaining three sips of a beverage in exchange for three nights of sex with Suttung's daughter, Gunnlöd. This god outwits Vafthrudnir, and asks a seeress to relay the events of Ragnarök to him in the *Völuspá*. This god stole the mead of poetry, hung himself from a branch of Yggdrasil, and drank from the well of Mimir, for which he gave up one of his eyes. For 10 points, name this "All-Father" of Norse mythology.

ANSWER: **Odin** [or **Othin**; accept **Grimnir** until mention of *Grimnismal*]

2. Unlike the other Markarian galaxies, Markarian 501 is especially notable for its visibility in one part of this regime, which is utilized by the Fermi and INTEGRAL satellites. The first space-borne telescope in this regime was aboard Explorer 11. The Crab Nebula is especially bright in the higher-energy region of this part of the spectrum, which was studied by the Compton Observatory's EGRET telescope. A class of emissions of this type first discovered by the Vela satellites leaves a characteristic lower-energy afterglow, according to the fireball model of those emissions. Magnetars might be the source of this kind of radiation's namesake soft repeaters. The brightest events in the universe are "bursts" of this radiation. For 10 points, name these electromagnetic rays with higher energy than x-rays.

ANSWER: **gamma** ray bursts [accept **gamma** radiation/particles, prompt on abbreviations like **GRB** with the letter G in them, prompt on **photons**]

3. A member of this dynasty abolished absurd restrictions on routes of silver transport with the Decree of Free Trade, part of a series of reforms that were inspired by Jose del Campillo's writings and empowered bureaucrats known as "peninsulars." This dynasty replaced the colonial administration of corregidores with *intendants* under Charles III. A single member of this dynasty controlled the thrones of both the kingdoms of Naples and Sicily after the War of Polish Succession, which it entered via the first of 3 non-Canadian Family Compacts with a neighboring branch. After the Treaty of Utrecht, this dynasty occupied the Escorial Palace after the Hapsburgs were supplanted. For 10 points, name this dynasty that ruled Spain under the grandson of its French ruler, Louis XIV.

ANSWER: Spanish **Bourbon** dynasty

4. This writer's moderation and early realism is presented as a complement to Plato and Aristotle in Leo Strauss's *The City and Man*. This author credits one leader as saying "we are lovers of beauty without extravagance" in a passage in which that leader presents his city as the school of his entire country. This author explained that the commonly believed story of the tyrannicides was untrue in a book that presents Brasidas as a rhetorically exceptional example of his city's men. In that book, this author relates the Melian dialogue to explain that "the strong do what they can, and the weak suffer what they must." That major work by this man also includes the funeral oration of Pericles. For 10 points, name this author of the *History of the Peloponnesian War*.

ANSWER: **Thucydides**

5. One poem in this language describes waterfalls with “thunderclap from ten thousand glens” as among the obstacles that make a journey “harder than scaling the blue sky.” A.C. Graham and David Hinton are known for translating poetry of this language. A poet in this language described the “white dew” soaking slippers of a fading beauty in early autumn in his poem “Marble Stairs Grievance.” One poem in this language begins by describing horses neighing and wagons squeaking and trundling. Another of poems in this language ends: “Forever we will keep this unfetter friendship / Till we meet again far in the Milky Way.” This language was used to write the poems “Ballad of the Army Carts” and “Drinking Alone by Moonlight.” For 10 points, name this language used by Du Fu and Li Bai.

ANSWER: classical Chinese

6. The Haag-Lopuszanski-Sohnius theorem allows for these theories to rely on a non-trivial extension of the Poincaré algebra. In models of this type, R-parity is introduced to forbid violations of baryon-lepton number conservation. A hypothetical spin-3/2 particle with an exceedingly long decay time would be predicted by combinations of these theories and gravity. The recently-discovered Higgs boson is near the upper mass limit allowed by this class of theories, the lightest particle proposed by which composes dark matter in many models. The spontaneous breaking of its central relations would solve the hierarchy problem. None of their predictions have been confirmed by the LHC. For 10 points, identify this likely-false class of theories that propose fermionic superpartners for every boson.

ANSWER: supersymmetry theories [or SUSY, accept word forms, accept supergravity]

7. In one story by this author, a woman is fatally gored by a stag for removing grapes from an altar to Pan. In another story by this author, a woman who enjoys destroying Egbert’s farm gets her wish to be reincarnated as an otter. He wrote a story in which a feud between two families in the Carpathians is ended by the falling of a tree branch and some approaching wolves, and one in which boys are given toys of intellectuals as Easter presents, which they turn into action figures anyways. This author of “The Toys of Peace” took his pen-name from the Persian for “cupbearer”, and wrote a story in which Vera frightens a man into mistaking returning hunters for ghosts. For 10 points, name this British author of *The Chronicles of Clovis* and “The Open Window.”

ANSWER: Saki [or H. H. Munro]

8. Italian mercenary Amleto Vespa published a tell-all about this polity's bizarre array of state-sponsored criminal enterprises. The large Jewish population of this polity fled after the execution of Simon Kaspe by Russian gangsters. Soldiers in this polity put up electric fences to keep out desperate relatives after 1400 people were trapped in an inferno during the deadliest coal mining accident in history. The Lytton report investigated the origins of this state, which used a five-color flag that represented its motto of “five races under one nation.” The Soviets invaded this polity in Operation August Storm, and it was the site of a number of barbarous medical experiments by Unit 731 under Shiro Ishii. Established under Puyi, for 10 points, name this Japanese puppet state set up in northeast China.

ANSWER: (Great Empire of) Manchukuo [or Japanese Manchuria; or Dà Mǎnzhōu Diguó; or Dai Manshū Teikoku; prompt on Empire of Japan before mentioned]

9. One character in this philosophical work is interrupted as he prepares to interrogate another man’s statement that one always fears the opinion of a few wise people more than those of a multitude. One character in this work suggests that it is not actions themselves but the manner of performing them that are good or bad, while distinguishing between the “noble” and “common” forms of a certain goddess. The subject of this work is likened to medicine by Eryximachus. In this work, Diotima talks of climbing a metaphorical ladder from appreciating individual beauty to appreciating universal beauty; and Aristophanes tells a myth of creatures with two bodies, which were separated by Zeus and now search for their other halves. For 10 points, name this Platonic dialogue about the nature of love.

ANSWER: *The* Symposium

10. He's not Chabrier, but Ravel wrote a piano piece "in the manner" of this composer. In one symphony, this composer used a clarinet melody accompanied by a harp to evoke the *gusli* played by the legendary bard Boyan. He included a scherzo in 1/1 time in that second symphony. The song "And This Is My Beloved" is based on the frequently rearranged nocturne from this composer's second string quartet. This composer used continuous violin harmonics to depict the desert in a piece that uses an English horn for an "Eastern Theme" representing a traveling caravan. Alexander Glazunov reconstructed the overture to this composer's unfinished opera about a prince who fights off a Polovstian invasion. For 10 points, name this composer of *In the Steppes of Central Asia* and the opera *Prince Igor*.

ANSWER: Alexander (Porfiryevich) **Borodin**

11. In one novel by this author, lines recur from a sinister song that begins: "How weary, weary these old bones." This author created a character who "ritualistically" eats cream cheese with paprika for breakfast every day, and a general who is obsessed with the idea of creating a "field of fire." This author used a real newspaper with which he feuded as the basis for the fictional tabloid *The News*, which sends a reporter to investigate the title character's relationship with the suspected terrorist Ludwig Götten. A novel by this author that is narrated entirely over the course of September 6, 1958 describes the destruction of St. Anthony's Abbey by a member of the Faehmel family. For 10 points, name this modern German author of *The Lost Honor of Katharina Blum* and *Billiards at Half-Past Nine*.

ANSWER: Heinrich (Theodor) **Böll**

12. At the beginning of Revelation, John sees the Lord standing among this many golden candlesticks. In John, Jesus makes this many "I am" statements. The Counting of the Omer lasts this many weeks. In Revelation, a dragon with ten horns and this many heads appears soon after angels blow this many trumpets. On the last day of his siege, Joshua is told to march around Jericho this many times before the wall will collapse. The Book of Ezekiel records this many of the prophet's visions. Noah is told to take this many pairs of each clean animal onto the ark. Chastity and temperance are among this many virtues of Christianity. For 10 points, on what numbered day of the Judeo-Christian Creation did God rest?

ANSWER: **seven**

13. This artist's signature hangs from a branch clutched by a parrot, which is held in Adam's hand, in one of this artist's depictions of Adam and Eve. He used his wife Agnes as a model for a painting of St. Anne. Konrad Celtis stands next to a self-portrait of this artist in a painting by him that shows the massacre of Roman forces at Mount Ararat by the army of Shapur I. A gourd hangs from the rafters in the upper-right corner of a painting by him in which a dog and a lion lie sleeping together. This painter of *The Martyrdom of the Ten Thousand* showed a rhombohedron near a ladder, leaning against a wall that features a magic square, in a painting in which a moping angel holds a compass. For 10 points, name this German artist of the engravings *St. Jerome in His Study* and *Melancholia I*.

ANSWER: Albrecht **Dürer**

14. TIA1 controls the mechanism of this process for the apoptotic Fas receptor. The method by which this process occurs to Doublesex determines the sex of a given *Drosophila* cell. SR proteins bind to ESE motifs that enhance this process. Morpholinos typically accomplish gene knockdown by inhibiting this process. Group I and II ribozymes can perform this action upon themselves. The complex that accomplishes this task is composed of U1 through U6 snRNPs ["Snurps"]. The sections excised in this process form a lariat loop structure. For 10 points, identify this pre-translation process in which introns, or "junk DNA", are removed from mRNA and the remaining exons glued back together.

ANSWER: RNA **splicing** [accept word forms, accept alternative **splicing** at any point]

15. This man's grief over his wife's death was exacerbated when he was buried not in his favorite Alban estate, but instead in the Campus Martius. Plutarch paired this man's biography with that of Agesilaus II. This politician freed a man named Lenaeus, who defended his character against the attacks of Sallust. Lucius Afranius and Marcus Petreius led forces loyal to this man who were starved into submission at Ilerda in Spain, where he had earlier helped Metellus suppress the revolt of Sertorius. This man's severed head was sent by Ptolemy XIII as a gift to his main rival, whose daughter Julia he married. For 10 points, identify this member of the First Triumvirate who was defeated at Pharsalus by Julius Caesar.

ANSWER: **Pompey** the Great [or Gnaeus **Pompeius** Magnus]

16. Mancur Olson's *Power and Prosperity* claims that long-term stable development can only be achieved when this behavior transitions from a mobile to a stationary form. The Dunning-Kruger effect was inspired by a man who engaged in this behavior after covering his face in lemon juice. This behavior was recast as a form of popularly-backed resistance in *Primitive Rebels* by Eric Hobsbawm, who examined its "social" form as exemplified by men like Lampiao, Dick Turpin, and Ned Kelly. This sort of behavior is the answer to a question posed in an 1840 text by Pierre-Joseph Proudhon, *What Is Property?* For 10 points, identify this behavior in which possessions are illegally and forcibly extracted from an unwilling victim.

ANSWER: **Theft** [accept any reasonable equivalents, including **robbery**, **banditry**, **stealing** from assholes, etc.; prompt on general answers like **violence** or **crime**]

17. One character in this play recalls when a man showed him a new Seville car and said with gratitude: "You bought that for me." In this play, a man asks "Did you ever take a dump that made you feel you'd just slept for twelve hours?" during a rambling rant that begins: "...all train compartments smell vaguely of shit." In this play's opening scene, a character tries to explain his poor performance on the contest board during lunch at a Chinese restaurant. At the end of this play, the fact that the Nyborgs are mentally ill and have no money is revealed by manager John Williamson, whose office was robbed by Shelley Levene, who has been outperformed by the younger Ricky Roma. For 10 points, identify this play about Chicago real estate agents by David Mamet.

ANSWER: **Glengarry Glen Ross**

18. The losing commander at this battle was the namesake of a rifle that was prohibitively expensive but far more accurate than the standard-issue Brown Bess. This clash was the most famous command for the future governor of the State of Franklin, John Sevier. A group led by the first Governor of Kentucky attacked Musgrove's Mill in the run-up to this battle, before being pursued and rallying support at Sycamore Shoals. The victors desecrated the body of British general Patrick Ferguson at this battle, whose winning commanders included Isaac Shelby and William Campbell. This battle prevented Cornwallis's invasion of North Carolina, and was a victory for the Overmountain Men. For 10 points, name this 1780 clash between Camden and Cowpens, named for a hilly town near the Carolina border.

ANSWER: Battle of **Kings Mountain**

19. A player of this instrument was inspired by a photo of Nigerian girls to create a song in which the trumpet and this instrument play difficult up-tempo solos, "Airegin." That player of this instrument recorded a special version of "Mack the Knife" called "Moritat" on his most famous album. A different player of this instrument names a substitution technique of modulating by a major third, known as his namesake "changes." A nursery song from the Virgin Islands inspired the track "St. Thomas", by Sonny Rollins, a player of this instrument, on an album titled [this instrument] *Colossus*. Another player of this instrument was inspired by his wife to write the ballad "Naima," which appears on his album, *Giant Steps*. For 10 points, name this instrument played by John Coltrane.

ANSWER: tenor **saxophone**

20. If the starting compound in one example of these reactions is sterically hindered and doesn't react quickly enough with the aminopyridine catalyst, unwanted formation of N-acylureas will greatly decrease yield. In another of these reactions, an anhydride intermediate is formed by reacting the starting compound with 2,4,6-trichlorobenzoyl chloride. DMAP catalyzes a reaction of this type in which DCC is the coupling reagent. Two types of these reactions are named for Yamaguchi and Steglich. A hydrolysis reverses this reaction in a saponification. The most famous type of this reaction refluxes an alcohol and a carboxylic acid to produce a compound with chemical group C-O-O-H. For 10 points, name this type of reaction, the most famous example of which is named for Emil Fischer.

ANSWER: **esterification**

BONUSES:

1. According to this tradition, human souls were created after Dionysus was tricked and murdered by the Titans. For 10 points each:

[10] Identify this ancient mystery religion concentrated around the Black Sea area, particularly Thrace, the region where its central mythological figure was born.

ANSWER: **Orphism** [or **Orphicism**; accept anything indicating that we're talking about the **cult** of **Orpheus**]

[10] The Derveni papyrus, the oldest manuscript in Europe, presents an Orphic religious text of this type. A better-known text of this type was written by a 7th-century Boetian poet also known for penning a farmer's manual addressed to his brother Perses.

ANSWER: **theogony** [accept equivalents, such as **genealogies** of the **gods**] (the other text is by Hesiod)

[10] The cult of Orpheus also venerated this deity, who was worshipped alongside her mother Demeter in the Eleusinian mysteries. In mythology, she was kidnapped by Hades and lives part of the year in the underworld.

ANSWER: **Persephone**

2. This author commemorated a statue erected by Etienne Falconet with *The Bronze Horseman*. For 10 points each:

[10] Name this Russian poet of the verse novel *Eugene Onegin*.

ANSWER: Alexander (Sergeyevich) **Pushkin**

[10] Pushkin's best-known love poem was written to this Russian socialite, with whom he had a long affair. It opens with the line "Ya pomnyu chudnoe mgnoven'e," which roughly translates "I remember that magic moment."

ANSWER: Anna Petrovna **Kern**

[10] This other poem by Pushkin is an epic fairy tale describing a *bogatyr*'s quest to retrieve a woman from an evil wizard named Chernomor. It is dedicated to unnamed beauties whom the author describes as "queens of my soul."

ANSWER: **Ruslan and Ludmila** [or **Ruslan i Lyudmila**]

3. Show what you know about Henri Matisse, for 10 points each.

[10] Matisse was a member of this Post-Impressionist art movement. Louis Vauxcelles coined their name, which comes from the French for "wild beast."

ANSWER: **Fauvism** [accept word forms such as **Fauvist**]

[10] Matisse depicted a maid adjusting a fruit bowl on a table in a painting dominated by and named for this color. A grandfather clock without hands appears in the background of a studio of this color in another Matisse painting.

ANSWER: **red** [or **rouge**]

[10] After Matisse's mobility was severely limited by abdomen surgery, he began using colored paper and scissors to make cut-outs, which he first published in this 1947 circus-themed volume.

ANSWER: **Jazz**

4. The name of Tel Aviv derives from the Hebrew title of one of this man's novels. For 10 points each:

[10] Identify this father of modern Zionism and co-founder of the World Zionist Organization, who expressed his idea for a new Jewish state in the appropriately titled pamphlet *Der Judenstaat*.

ANSWER: Theodor **Herzl**

[10] This degeneration theorist co-founded the World Zionist Organization with Herzl. He proposed that Jews counter stereotypes by re-inventing themselves as an athletic people, an idea he called "Muscular Judaism."

ANSWER: Max **Nordau**

[10] Nordau's degeneration theories were co-opted by this state, which set up extermination camps at Auschwitz and Birkenau.

ANSWER: **Nazi** Germany [or the **Third Reich**]

5. You are a pyruvate molecule. Answer the following about your origin, for 10 points each:

[10] You were produced in this metabolic pathway, in which glucose is broken down in the cytosol.

ANSWER: glycolysis

[10] You were created when pyruvate kinase acted on this molecule, creating a unit of ATP as well. This three-carbon molecule's namesake carboxykinase catalyzes the first committed step of gluconeogenesis.

ANSWER: PEP [or phosphoenolpyruvic acid]

[10] This enzyme takes 2-PG to PEP. Like TPI, another enzyme used in glycolysis, it has a TIM-barrel.

ANSWER: enolase

6. Now, you are a chasqui for the Incan Empire. Great job! Identify these features you might encounter on your daily 50-mile runs delivering bundles of knots, for 10 points each:

[10] The bane of your existence is assuredly this South American mountain range that covers most of the territory you serve.

ANSWER: Andes Mountains

[10] During an early morning run, you narrowly avoid an eruption by this active volcano, the second-highest mountain in Ecuador. You're relieved that it wasn't the even larger Chimborazo.

ANSWER: Cotopaxi

[10] On a jaunt by Lake Titicaca, you encounter this ancient Pre-Columbian site in Bolivia, later found by Pedro Cieza de León in 1549. This capital of an ancient pre-Inca empire contains the megalithic Gate of the Sun.

ANSWER: Tiwanaku

7. This transformation turns Maxwell's equations into a simple wave equation. For 10 points each:

[10] Identify this setup, in which the potentials are written so that the divergence of the four-potential equals zero.

ANSWER: Lorenz gauge/condition [if they say Lorenz transformation, ask them to spell it, because the Lorentz transformation is a totally different thing]

[10] Wave equations generally set the second time-derivative of a function equal to a constant multiple of this operation applied to the function. It is denoted del-squared, and is the divergence of the gradient.

ANSWER: Laplacian [or Laplace operator]

[10] This set of equations is written in the Lorenz gauge. Their denominators contain retarded time terms to account for the EM radiation emitted by the central moving point charge not affecting its surroundings instantaneously.

ANSWER: Lienard-Wiechert potentials

8. De Gaulle's attempts to install Free French colonial rule were thwarted in Operation Menace, a naval battle off of this city. For 10 points each:

[10] Identify this city, whose island of Gorée was home to the infamous House of the Slaves, a major exit point for the African slave trade. It was home to the administration of Abdou Diouf.

ANSWER: Dakar, Senegal

[10] Europeans ran the island of Gorée off the coast of this West African empire, which shares its name with the largest ethnic group in Senegal.

ANSWER: Wolof kingdom/empire [or Jolof kingdom/empire; or Wolof people]

[10] Much earlier in its history, the Wolof empire was a vassal of this great West African empire, famously led by Mansa Musa.

ANSWER: Mali [or Malinese empire, etc.]

9. Answer some questions about American novels in which biracial characters pass for white, for 10 points each.

[10] The title character's sister, Althesa, passes for white in this novel by William Wells Brown about a slave daughter of Thomas Jefferson.

ANSWER: Clotel; or, *The President's Daughter*

[10] This first black leader of the NAACP and author of the poetry collection *God's Trombones* wrote of an unnamed biracial youth passing for white in *Autobiography of an Ex-Colored Man*.

ANSWER: James Weldon Johnson

[10] Coleman Silk passes for white in *The Human Stain*, a novel by this American Jewish author who created the characters of Nathan Zuckerman and Alexander Portnoy.

ANSWER: Philip Roth

10. This man divided society into cultural, economic, and politic spheres in a work that claims that modern society expects the state to fulfill its hedonistic needs. For 10 points each:

[10] Name this author of *The Cultural Contradictions of Capitalism*, who more famously declared the death of the grand cultural political systems that characterized the 19th century.

ANSWER: Daniel Bell

[10] Bell's aforementioned text describes the "End of" these belief systems. Karl Mannheim traced the development of this term from a "particular" to "total" form in a book whose title pairs it with "Utopia."

ANSWER: Ideology [accept word forms]

[10] Bell's *The Coming of Post-Industrial Society* correctly predicted the growing importance of the economic sector that provides these things, which are generally paired with their economic counterpart, goods.

ANSWER: services

11. This character and Toadvine give the nickname "gold-toothed pervert" to the overseer of their street-cleaning gang while the two are imprisoned in Chihuahua. For 10 points each:

[10] Identify this character who survives the Yuma massacre of the Glanton gang, but does not take advantage of his many opportunities to kill Judge Holden.

ANSWER: the kid [or the man]

[10] The kid becomes part of a gang of outlaws in *Blood Meridian*, a novel by this American author of *No Country for Old Men*.

ANSWER: Cormac McCarthy

[10] This U.S. city is the setting of McCarthy's semi-autobiographical novel *Suttree*. This city also titles a prose poem used as a preamble to a novel about the death of Jay Follett in a car accident.

ANSWER: Knoxville, Tennessee

12. This god of love pursued Caer, who lived alternatively as a maiden and a swan, and managed to find her amidst 150 swans at the Lake of the Dragon's Mouth. For 10 points each:

[10] Identify this member of the Tuatha Dé Danann, a son of the Dagda and Boann who lifts a spell against Etain cast by Fúamnach, the jealous wife of his brother Midir.

ANSWER: Aengus Óg

[10] Aengus was foster father to Diarmuid, who was doomed to die during the hunt of one of these animals. After being mortally wounded by one of these animals, Diarmuid was denied healing water.

ANSWER: boars

[10] This hero refused to use that water to heal Diarmuid. This leader of the *fianna* burnt his thumb while cooking the Salmon of Knowledge.

ANSWER: Fionn MacCumhaill [or Finn McCool]

13. Miller, Calcaterra, and Closs found evidence of one result predicted by this theory. For 10 points each:

[10] Identify this theory, which predicts that surprising “inverted region,” where reactions go much slower than expected..

ANSWER: Marcus theory

[10] Marcus theory explains the rates of reactions in which these particles are transferred. The Faraday constant is equal to the negative charge of a mole of these particles.

ANSWER: electrons

[10] The two main types of electron transfer are named for the “inner” and “outer” varieties of these entities.

ANSWER: inner/outer spheres

14. The current hundred franc note features sculptures from this series on one side and its sculptor on the other. For 10 points each:

[10] Identify this series of sculptures of long, thin figures by Alberto Giacometti, one of which sold for over \$100 million at Sotheby’s in February 2010.

ANSWER: Walking Man series [or *L’homme qui marche*; accept anything similar indicating walking man/men or striding man/men, etc.]

[10] Alberto Giacometti was from an Italian-speaking region in this country. Dadaism was born at the Cabaret Voltaire a German-speaking part of this country.

ANSWER: Switzerland [or Swiss Confederation; or *Schweizerische Eidgenossenschaft*; or *Confédération Suisse*; or *Confederazione Svizzera*; or *Confederaziun svizra*]

[10] Giacometti was friends with this French father of photojournalism, who sought “the decisive moment”. A 2005 exhibition organized by Tobia Bezzola placed *Walking Man I* next to this photographer’s *Man Jumping*.

ANSWER: Henri Cartier-Bresson

15. The side effects of this legislation prompted relief efforts led by Sherwood Eddy in the Mississippi Delta, and by the unfortunately-acronymed group STFU. For 10 points each:

[10] Identify this bill that was later augmented by the Thomas Amendment, which allowed the President to create silver money and reduce the gold backing of the dollar.

ANSWER: The Agricultural Adjustment Act [or AAA]

[10] The Agricultural Adjustment Act was part of this expansive set of programs launched by the Roosevelt administration, aimed at lifting the U.S. out of the Great Depression.

ANSWER: The New Deal

[10] This justice wrote the majority opinion striking down the AAA in *U.S. v. Butler*. His “switch in time that saved 9” during *West Coast Hotel v. Parrish* is often seen as a way to avert FDR’s court-packing plan.

ANSWER: Owen Roberts

16. Like Thomas Tallis, this composer created two settings of the *Lamentations of Jeremiah*. For 10 points each:

[10] Identify this Roman School composer who, at the commission of Urban VIII, set Psalm 51 in a piece titled *Miserere mei, deus* for use in the Sistine Chapel.

ANSWER: Gregorio Allegri

[10] This composer purportedly transcribed Allegri’s *Miserere* from memory after a single trip to the Vatican. His own masses include the “*Great Mass*” in *C Minor* and the “*Coronation*” *Mass in C major*.

ANSWER: Wolfgang Amadeus Mozart

[10] This more famous Roman School composer composed the *Pope Marcellus Mass* which did not, in fact, rescue polyphony in the eyes of the clergy at the Council of Trent. The legend lives on, though.

ANSWER: Giovanni Pierluigi da Palestrina

17. This philosopher's "metaphysics of the beautiful" declares that it is only through aesthetic contemplation that we are able to perceive the essential form of nature. For 10 points each:

[10] Name this German philosopher who wrote *Parerga and Paralipomena* and *The World as Will and Representation*.

ANSWER: Arthur **Schopenhauer**

[10] In *The World as Will and Representation*, Schopenhauer claims that the only way to escape suffering is through a form of asceticism in which one denies this impulse. Schopenhauer's particular term is required.

ANSWER: **Will-to-Life** [or *Wille zum Leben*; or **Will-to-Live**]

[10] In his doctoral dissertation, Schopenhauer investigated different aspects of this principle, commonly attributed to Leibniz, which states that all things must have a cause for existing.

ANSWER: principle of **sufficient reason**

18. Although this Classical scholar failed to attain a degree, he was nonetheless awarded a professorship of Classics at Cambridge, during which he completed his five-volume edition of Manilius' *Astronomica*. For 10 points each:

[10] Name this author of "The Application of Thought to Textual Criticism." His posthumously published essay *De Amicitia* describes his unrequited love for his ex-roommate Moses Jackson.

ANSWER: A(lfred) E(dward) **Housman**

[10] This English playwright fictionalized Housman's love for Jackson in *The Invention of Love*. His other plays include *Arcadia* and *Rosencrantz and Guildenstern Are Dead*.

ANSWER: Tom **Stoppard** [or Tomas **Straussler**]

[10] In this poem from Housman's *A Shropshire Lad*, the speaker describes a time in his youth when a wise man told him: "Give crowns and pounds and guineas / But not your heart away."

ANSWER: "**When I was one-and-twenty**"

19. Rollo apocryphally came up with a creative solution for kissing the foot of this king by grabbing his leg and lifting it to his lips, knocking him off his horse. For 10 points each:

[10] Name this king of France who signed the Treaty of Saint-Clair-sur-Epte after the siege of Paris.

ANSWER: **Charles III** of France [or **Charles** the **Simple**; or **Charles** the **Straightforward**; or **Carolus Simplex**, prompt on **Charles**]

[10] Rollo thus became first duke of this region of northern France, from which William the Conqueror hailed.

ANSWER: **Normandy** [or **Normaundie**]

[10] Charles III was similarly vexed by Gilbert, Duke of Lotharingia, who swore fealty to this king of East Francia. This founder of the Ottonian dynasty was the father of Otto I.

ANSWER: **Henry** the **Fowler** [or **Heinrich** der **Finkler**; or **Henricius Auceps**, prompt on **Henry**]

20. Peirce's criterion can be used to identify these observations. For 10 points each:

[10] Give this term for statistical data points that are very different from other observations. Numerical ones bias the mean much more than the median.

ANSWER: **outliers**

[10] Considering the event "being an outlier" as a Bernoulli outcome, then for a large number of datapoints and few expected outliers, their number follows this distribution. This distribution has mean equal to variance, and PDF proportional to $\lambda^k / k!$.

ANSWER: **Poisson** distributions

[10] This statistician's namesake transform is used to stabilize the variance of Poisson distributions. He constructed four very different sets of data with very similar statistical measures to emphasize the importance of graphing data.

ANSWER: Francis **Anscombe** [or **Anscombe**'s quartet]