

ACF Nationals 2013

Packet by University of London (John Lawrence) and Washington University in St. Louis (Richard Yu, Charles Hang, Tirth Patel)

Tossups

1. One of these compounds can be formed by combining silver hexa-fluoro-phosphate with tri-phenyl-methyl chloride. Another of these can be formed by ultraviolet photoionization of a methyl radical. The first step of ethylating benzene produces one of these compounds. They are produced by the Friedel-Crafts alkylation in cases where the chloride is not secondary or tertiary, but they are not produced by Friedel-Crafts acylation. 1,2 anionotropic rearrangements are usually initialized by the heterolysis of one of these compounds. Their nomenclature was proposed by George Olah, who classified them by their valence. These compounds are often the intermediates in electrophilic aromatic substitutions and SN1 reactions. Examples of them include the Wheland intermediate, where a ring delocalizes the charge. For 10 points, name these compounds with a positively-charged carbon ion.

ANSWER: carbocation [or carbonium ion]

2. In this novel's fourth chapter, one character has a flashback about purposefully running over a dog with his car after a man raises a stone in order to subdue Dr. Lynd's violent bull mastiff. A popular song in this novel celebrates a man who jumped into a trench and tried to stop a soldier from beating a pregnant woman. One character in this novel is radicalized after being beaten in front of his whole school, and later leads an attack on the Mahee police garrison. Its climax occurs at a rally where General R. plans to publicly execute Karanja. At the end of this novel, Gikonyo begins to repair his relationship with Mumbi, whose brother was responsible for assassinating District Officer Robson. Its characters include the hermit Mugo, who confesses that he betrayed Kihika to the British. For 10 points, name this novel about the Mau Mau rebellion by Ngugi Wa Thiong'o.

ANSWER: A *Grain of Wheat*

3. Descendants of colonial laborers brought to this city are called the Betawi, who give their name to local variants of dishes you might find here like soto and gado-gado. One minority group was herded into this city's Glodok district, now an electronics hub in its Old City, after a 1740 massacre. A site in this city called "the crocodile's pit" includes a bronze avian statue over statues of seven murdered army officers. This city's only regency is the so-called Thousand Islands off its coast. Government buildings are housed near its enormous Merdeka Square, which is home to the flame-topped Monas obelisk. A mass shooting by police at its Trisakti University helped incite rioting here in 1998, much of which targeted Chinese-owned businesses. This capital was renovated in the 1960s by the New Order regime, and it was bombed in 2009 by Jemaah Islamiyah. For 10 points, name this "Big Durian" on the island of Java, the capital of Indonesia.

ANSWER: Jakarta [accept Batavia until "crocodile's pit" is read]

4. Under the leadership of Charles McDew, a convert to Judaism who served as its second chairman, this organization began hiring "field secretaries," who were paid \$10 per week to organize in small towns. It's not in New York City, but a member of this organization named Robert Moses organized a voter registration drive called the "Freedom Summer" to benefit blacks in Mississippi. Years before it was led by H. Rap Brown, this group attempted to seat an all-black delegation at the 1964 Democratic National Convention. During the Atlanta Project, this organization founded by Ella Baker controversially expelled its white members. Its most famous leader coined the phrase associated with him after the shooting of James Meredith, calling for socio-economic independence. For 10 points, name this organization that became the center of the "black power" movement, led by Stokely Carmichael.

ANSWER: Student Nonviolent Coordinating Committee [accept acronym pronounced as "snick"]

5. This thinker's dialectic defines genuine knowledge to be not only a perfect correspondence with reality, but also universally agreed upon by all people, and therefore impossible. He rejected Kantian ethics, arguing for a morality that balances individual diversity of morals and commitment to the whole of humanity in his *Soliloquies* and in *On Religion: Speeches to Its Cultural Despisers*. He argued that different definitions of a word are interdependent due to the so-called unity of the word-sphere. His twin vocations can be seen in his *Dialectic, or, The Art of Doing Philosophy* and his *Brief Outline for the Study of Theology*. He argued that rules of interpretation must be universal across texts, must be non-linguistic, and must include interpretation based on the psychology of the author. For 10 points, name this late-18th and early-19th century German theologian and philosopher, often regarded as the father of hermeneutics.

ANSWER: Friedrich Daniel Ernst Schleiermacher

6. In one story by this author, a Norse god is cursed to be a blacksmith shoeing horses for farmers until the day one of his clients thanks him. That story appears in a collection in which Dan and Una meet the title character after putting on a performance of *A Midsummer Night's Dream*. One of his stories begins on a train where a stranger tells the narrator to give the message "He has gone South for the week" to a red-bearded man at Marwar Junction. This author included "Weland's Sword" in his collection *Puck of Pook's Hill*, and wrote a story in which Darzee's wife pretends that she has a broken wing in order to let a character enter a nest in a melon patch. He wrote a short story in which Peachy Carnahan and Daniel Dravot set themselves up as the rulers of Kafiristan, as well as a story in which the cobras Nag and Nagaina are defeated by the title heroic mongoose. For 10 points, name this Anglo-Indian author of "The Man Who Would Be King" and "Rikki-Tikki-Tavi."

ANSWER: Rudyard Kipling

7. This architect used the form of a bird in flight for his new designs for the Gare de Lyon Saint-Exupery. The outer "eyelid" of concrete can open to reveal a pool in an IMAX theater designed by this architect in the City of Arts and Sciences. His own marble sculpture of a twisting human form was the basis for a skyscraper by him constructed of twisted pentagonal segments in Malmo, Sweden. One of his buildings contains wing-like sunscreens called the Burke Brise Soleil, and is part of a building whose chancel is shaped like the prow of a ship. That building, Windhover Hall, is part of an art complex that also includes the Kahler Building and Eero Saarinen's War Memorial Center. This architect designed the Turning Torso Building and the Quadracci Pavillion at the Milwaukee Art Museum. For 10 points, name this Spanish architect known for cantilever spar cable-stayed bridges such as the Puente del Alamillo in Seville and the Chords Bridge in Jerusalem.

ANSWER: Santiago Calatrava

8. While working for NBER, this economist created the first measure of Total Factor Productivity, publishing it in *Trends in Output and Employment*. This economist wrote the first article on what is now called frictional unemployment, giving rise to the subfield of search theory, which focuses on the process of hunting for bargains or for work. He argued that the minimum wage is ineffective in combating poverty because it affects different professions differently due to the variance in optimum wage for employers. In his paper "The Economics of Regulation," he argued that regulatory agencies end up inadvertently furthering special interests in a phenomenon that he called regulatory capture. His namesake law states that all demand curves are inelastic. For 10 points, name this author of *The Intellectual and the Marketplace*, a Chicago school economist who names a law of demand and supply elasticities and won the Nobel Prize in 1982.

ANSWER: George (Joseph) Stigler

9. One of the genes encoding one of these proteins is nicknamed “Pavarotti” because it can result in abnormally large cells. In *Drosophila*, one of these proteins moves sister chromatids to opposite spindle poles during anaphase A of mitosis. An early discovered one of these is responsible for transporting IFT particles during cilium biogenesis. One of these proteins is partially responsible for the shape of dendrites. Monastrol is an inhibitor of one of these proteins, which are powered by the hydrolysis of ATP. Unlike dynein, these proteins mostly move in anterograde motion via either the “inchworm” or “hand-over-hand” mechanism. In the nervous system, one of their functions is to transport vesicular cargo from the axon to the synapse. For 10 points, name this class of motor proteins that move along microtubule filaments.

ANSWER: **kinesins**

10. This country hired private military contractor MPRI during its war of independence. This country launched Operation Maslenica, and it signed the Erdut Agreement after surviving an 87-day siege by the JNA. Cardinal Stepanic, the bishop of this nation’s capital, may have been poisoned by Communists, leading to his 2003 beautification despite charges that he supported fascists. Generals from this nation were put on trial for war crimes as a result of Operation Storm, which resulted in the destruction of the splinter state of Krajina. During World War II, this nation was home to the Jansenovac Concentration Camp and led by a man with the title of Poglavik, who persecuted Eastern Orthodox Christians. For 10 points, name this country which was home to the Ustaše the Second World War, which has its capital at Zagreb.

ANSWER: **Croatia** [or Republika **Hrvatska**]

11. One of these entities was romantically pursued by Tyro, who was tricked into instead sleeping with Poseidon, resulting in the births of Pelias and Neleus; that one is called Enipeus. Another of these beings had nine daughters including Thespia, Thebe, and Corcyra, who were abducted by four gods. That one of these may be a syncretization of Phliasian and Boeotian progenitors, as all are named Asopus. Another one of these deities has the alternative name Xanthos and fought alongside the Trojans after figures like Lycaon covered it with blood. For 10 points, name these children of Oceanus and Tethys, one example of which that fought Achilles was named Scamander.

ANSWER: **river** deities

12. Hans Werner Henze composed two sonatas “on Shakespearean characters” for this instrument, and published them under the title *Royal Winter Music*. Many students of this instrument practice by learning the etudes composed by Matteo Carcassi. Two of these instruments play the *Fuga elegiaca* composed by Mario Castelnuovo-Tedesco, who specialized in writing music for it. In the *Adagio* second movement of a concerto for this instrument, it plays broken B-minor chords before an English horn introduces the main melody. Benjamin Britten composed *Nocturnal* for a virtuoso of this instrument, Julian Bream. Francisco Tarrega composed many works for this instrument, which is accompanied by the orchestra in Joaquin Rodrigo’s *Concierto de Aranjuez*. For 10 points, name this instrument played by Andres Segovia, which is historically prominent in Spain and has six strings.

ANSWER: classical **guitar**

13. This regime saw the passage of the Law of Disjunction, which set up separate courts for the military, during the tenure of Prime Minister Louis-Mathieu Molé. The deaths of this government’s President of the Council, Casimir Pierre Périer, and General Jean Lamarque early in this government resulted in the June Rebellion. This regime included two governments formed by Marshal Soult. The end of this government saw the appearance of the banquet campaign, as well as a crisis involving this regime’s foreign minister, François Guizot, whose desire to wed Queen Isabella II to a Bourbon resulted in the Affair of the Spanish Marriages. The leader of this regime was mocked in one cartoon for his resemblance to a pear. For 10 points, name this regime which followed the rule of Charles X and was led by the “citizen-king” Louis-Philippe.

ANSWER: **July Monarchy** [accept anything with **Louis-Philippe** until mention]

14. The logarithm of the average value of this parameter for a point charge is proportional to the radiation power lost via motion through an inhomogenous medium. The parameter controlling the so-called velocity addition formula is the inverse hyperbolic cosine of this quantity. A standard derivation of this quantity considers a signal bouncing off a mirror with a stationary mirror and a mirror moving in the transverse direction, then invokes the Pythagorean theorem. This quantity it is equal to the frequency ratio in the transverse Doppler effect. The differential of the coordinate time is this quantity times the differential of the proper time. In the direction of motion, this quantity appears. It is defined as one over the square root of quantity one minus velocity squared over the speed of light squared. For 10 points, name this factor that gives the ratio of rest and observed lengths, as it appears in its namesake's special relativistic coordinate transforms.

ANSWER: Lorentz factor [or Lorentz term or Lorentz gamma; prompt on gamma]

15. In one of this artist's works, tree branches grow out of a bald head attached to a proportionally small skeleton's body. A sailboat holding two reclining people floats on the water in the foreground of a painting by him in which the sky seems to bloom into colorful bouquets of flowers. Though he is not Klimt, this painter of *Spirit of the Forest* depicted the title religious figure dressed in mosaic robes holding a staff and standing to the left of a leafless tree in *Buddha*. Both of his versions of *The Birth of Venus* show her emerging from a conch shell rather than a scallop or oyster. He was a member of the same school as Gustave Moreau. His most famous painting shows the title mythological figure peering over a hill at a sleeping nude woman. For 10 points, name this French Symbolist painter of *The Cyclops*.

ANSWER: Odilon Redon [or Bertrand-Jean Redon]

16. In an interlude in this play, Punchinello cannot finish his song because he keeps getting interrupted by violins. One of its characters disguises himself as a music teacher and composes an opera in which he and his lover sing the parts of Phyllis and Tircis. Its prologue ends with a shepherdess scaring away two satyrs with a tremendous fart. This play concludes with an extended scene in mock Latin, conferring a degree upon the protagonist. In this play, the protagonist's daughter Angelique tries to marry Cleante instead of Thomas Diaforous, to whom she is promised. Its author died shortly after experiencing a tubercular coughing fit while playing the title role. For 10 points, name this play by Moliere in which Argan tries to marry off his daughter to a doctor so he can receive free treatments for his perceived ailments.

ANSWER: *The Imaginary Invalid* [or *The Hypochondriac*; or *Le Malade Imaginaire*]

17. This figure was depicted with the head of a lion and the body of a snake. This figure was sometimes called "Yao," but more commonly his names were given as Skalas and Yaltabaoth. According to the Ophites, this figure was assisted by seven archons. After being born, this figure was hidden in a cloud, leading him to grow up ignorant of reality. This figure's mother is either Achamoth, or her mother Sophia, making him a corruption of divine wisdom. Some believers equated this figure with the Christian Satan, while more radical ones equated this figure with the God of the Old Testament. For 10 points, name this false god that Gnostics believed created and ruled the material world, in opposition to the true God.

ANSWER: demiurge

18. One of these poems questions whether life is "a handkerchief sandwich." Another of these poems includes a character who concludes that he has no "inner resources" because he is bored. A third of these poems ends with the lines "Hard on the land wears the strong sea / and empty grows every bed." These poems include one which concludes "Nobody is ever missing" and one in which the speaker spits on a grave, part of a series of meditations about the suicide of their poet's father. They contain twelve elegies to Delmore Schwartz and feature a recurring character who speaks in blackface dialect named Mr. Bones. The first seventy-seven of these poems were published in 1964, while the remaining three hundred and eight were published in the collection *His Toy, His Dream, His Rest*. For 10 points, name these poems focusing on Henry, the alter ego of their author, John Berryman.

ANSWER: *The Dream Songs*

19. A one-pass variant of this procedure acts without initial knowledge of the source distribution and changes the structure of the central tree as probability estimates update as the symbol table is traversed; that modification of this algorithm is used in the Vitter algorithm. The so-called canonical form of this algorithm sorts by length first, then value. Where  $n$  is the input size, this algorithm is big-O of  $n \log n$ , although if the input weights are known, it can be reduced to linear. This algorithm's bottom-up property makes it more efficient than the alternative top-down Shannon-Fano algorithm. This greedy algorithm generates a tree of binary prefix codes by minimizing the sum of weights times length of binary code-words. For 10 points, name this encoding algorithm used in lossless compression because it assigns the shortest codewords to the most frequent elements, making it the most efficient method possible.

ANSWER: **Huffman** coding

20. Commanders in chief serving under these rulers were called *turtanu*. A black limestone obelisk named for one of them was found in his ruling city of Calah. One of them defeated an alliance of twelve kings led by Hadadezer and Ahab at the Battle of Karkar. Herodotus tells of one of these rulers being foiled when field mice ate through his army's bowstrings. In a failed attempt to aid one of these rulers, Necho II fought against Nebuchadnezzar II at Carchemish. One of these rulers conquered Urartu and another boasted of his conquests on the Taylor Prism. Though not Sumerian, one of them was the namesake of a Royal Library holding the most intact extant copy of The Epic of Gilgamesh. For 10 points, name these people who included several Tiglath-Pileasers and Shalmanesers, as well as Sennacherib and Ashurbanipal.

ANSWER: **Kings** of **Assyria** [accept **Emperors** of **Assyria**; other equivalents]

TB-21. A golden patch of wheat field contrasts with a pile of golden coins in this work, another section of which includes an "eternal flame" burning underneath a figure buried in flower wreaths. In this work, a gray cloaked figure hugs a cross behind an armored man carrying a sword, at whose feet lies a pile of bodies being devoured by a device with a large black pillar, called "The Machine." Snakes come out of the sea as a blonde-bearded figure in a white robe points to the right in one part of this work, while in another section a skeleton lying on a pile of books gives birth to dead ideas. A horde of stern identical-looking blonde children are depicted near a barnhouse in one section of this work, which also includes three sections on "Modern Industrial Man." Elsewhere, a decorated general prepares to stab Emiliano Zapata. Depicting "The Coming and Departure of Quetzalcoatl" and "Cortez and the Modern Era" is, for 10 points, this mural housed in the Baker Library at Dartmouth College, painted by Jose Orozco.

ANSWER: **The Epic of American Civilization**

## Bonuses

1. Also known as the unit impulse function, it is zero everywhere except at zero and has an integral of one. For 10 points each:

[10] Name this so-called function.

ANSWER: **Dirac** delta function

[10] The Dirac delta function is not a function at all, but rather a distribution. Specifically, it is a member of this space of distributions, the continuous dual of the Schwartz space. These distributions all have convergent Fourier transforms, which is always nice.

ANSWER: the **tempered** distributions

[10] According to this useful property of the delta function, the integral of any function times a the delta function is equal to the function evaluated at the zero of the delta function, so long at the interval of integration contains that zero.

ANSWER: the **sifting** property [prompt on **D-prime** or **S-star**]

2. This people was temporarily unified by Eight Deer Jaguar Claw. For 10 points each:

[10] Name this Mesoamerican tribe which ruled cities such as Tilantongo and Tututepec, and which succeeded the Zapotecs at Monte Albán.

ANSWER: **Mixtecs**

[10] The land of the Mixtecs lay in what is now this Mexican province, which is home to Tilantongo, Tututepec, and Monte Albán, as well as Mitla and Yagul.

ANSWER: **Oaxaca**

[10] Both the Mixtecs and Zapotecs spoke branches of this language family spoken throughout Central America, other branches of which included Otomi and Mazahua.

ANSWER: **Oto-Manguean**

3. Its first entry describes the crying of ospreys on a river islet, and praises a “modest, retiring, virtuous young lady.” For 10 points each:

[10] Name this collection of 305 poems that includes numerous “Airs of the States” as well as a series of “Hymns” and “Eulogies.” It was probably compiled sometime between 1100 and 600 BCE.

ANSWER: **Book of Odes** [or **Book of Songs**; or **Classic of Poetry**; or **Shi Jing**]

[10] The *Book of Odes* is often grouped with the *Songs of Chu* written by this poet, whose suicide by drowning is commemorated by the Dragon Boat Festival. This poet wrote about how corrupt the world is in the poem “Encountering Sorrow,” or *Li sao*.

ANSWER: **Qu** Yuan [or **Ch’ü** Yüan]

[10] The *Book of Odes* and the *Songs of Chu* primarily use this poetic stanza, which also makes up the *Ruba’iyat* of Omar Khayyam.

ANSWER: **quatrains**

4. Examples include Ori, who represents the spirit of human consciousness. For 10 points each:

[10] Name these spirits of Yoruba religion that are also worshipped in Yoruba derived religions like Santería.

ANSWER: **Orishas**

[10] This Orisha is Lord of the Sea, and is particularly revered by the descendants of slaves who crossed the Atlantic Ocean.

ANSWER: **Olokun**

[10] Practitioners of Santería conduct sacrifices to obtain this life force, which they believe can be found in sacrificial blood. Orishas in turn serve as the conduit for that force.

ANSWER: **Ashe** [or **Ache**, or **Axé**, or **Axe**, or **Ase**]

5. In some myth systems, this creature created man from a mud ball and created the Milky Way by blowing on a bag of stars. For 10 points each:

[10] Name this trickster figure in many Native American myth systems.

ANSWER: **Coyote**

[10] In one tale, Coyote attempts to bring home his dead wife from the land of these creatures, who live in deep woods. In some myths, Coyote made these people on accident in a half-assed attempt to make humans.

ANSWER: the **shadow people**

[10] The story of Coyote and the Shadow People is a myth of this Sahaptian-speaking tribe of the Columbia River Plateau. In a story shared between the Ute and these probable Old Cordilleran descendants, Coyote attempts to cheat a porcupine out of some buffalo meat.

ANSWER: **Nez Pierce** [or **Niimípu**]

6. His second and third piano concertos, in A minor and B minor respectively, shifted the form away from the Mozartian model towards a new Romantic model that would be used by Chopin and Mendelssohn. For 10 points each:

[10] Name this composer of a trumpet concerto in E major. His book of *A Complete Theoretical and Practical Course of Instruction on the Art of Playing the Piano Forte* helped establish 19th century piano technique.

ANSWER: Johann Nepomuk **Hummel**

[10] Like Hummel, this composer wrote his trumpet concerto for Anton Weidinger. This Austrian also composed the oratorio *The Creation* and the Paris Symphonies.

ANSWER: Franz Joseph **Haydn**

[10] Hummel was instructed in piano by this founder of the London School of piano playing, who also taught Ignaz Moscheles and John Field. His works for students include many sonatinas and his *Gradus ad Parnassum*.

ANSWER: Muzio **Clementi**

7. It occurs in nuclei with an abundance of neutrons, as opposed to similar processes that occur in nuclei with an abundance of protons. For 10 points each:

[10] Name this nuclear process in which a neutron converts into a proton, with the emission of an antineutrino to conserve lepton number.

ANSWER: **beta**-minus decay

[10] The energy distribution of energies in beta decay is continuous, but is chopped at this value, equal to the mass defect change times c-squared.

ANSWER: the reaction **Q**-value [prompt on reaction **energy**]

[10] For an allowed beta decay, the beta kinetic energy distribution is given by the momentum, times the total energy, times the square of the difference between kinetic energy and Q-value, times this function. Containing the ratio of squares of gamma functions, this function accounts for attraction between the emitted beta and the nucleus.

ANSWER: the **Fermi** function [prompt on **F**]

8. Sinbad Sailors toasts to himself in this town's Sailors Arms, which is always open. For 10 points each:

[10] Name this town on the "fishboatbobbing sea." Its residents include the music-obsessed Organ Morgan, the teacher Gossamer Beynon, and Reverend Eli Jenkins, who writes poems about a "mystic tumulus."

ANSWER: Llareggub

[10] Llareggub is the setting of this radio drama, a "play for voices" by Dylan Thomas.

ANSWER: Under Milk Wood

[10] *Under Milk Wood* opens with this blind retired captain dreaming about Dancing Williams, Jonah Jarvis, the disembodied head of Curly Bevan, and other drowned shipmates.

ANSWER: Captain Cat

9. This ruler was nicknamed "fixed asset" or *Demirbas* for the costs incurred by the Ottomans to support him in exile near the town of Bender. For 10 points each:

[10] Name this Swedish king during much of the Great Northern War, whose disastrous invasion of Russia culminated in his defeat at Poltava.

ANSWER: Charles XII [prompt on Charles]

[10] During Frederick's reign, the Riksdag was dominated by this nationalist, pro-war party who opposed the rival "Caps" party.

ANSWER: the Hats [or Hat party; or Hattpartiet; or Hattarna]

[10] Charles XII allied with this King of Poland, who lost the War of the Polish Succession to Augustus III. He spent the rest of his life as Duke of Lorraine.

ANSWER: Stanislaw I Leszczynski [require either number or last name, but not both]

10. For 10 points each, name some art historians.

[10] This Princeton-based art historian of *Studies in Iconology*, *The Life and Art of Albrecht Durer* and *Meaning in the Visual Arts* created the idea of habitus, which was later adapted by Pierre Bourdieu.

ANSWER: Erwin Panofsky

[10] This Columbia University-based specialist in Medieval art history was the leading American Marxist art historian. This author of *The Parma Ildefonsus* did extensive work on illuminated manuscripts like the Joshua Roll.

ANSWER: Meyer Schapiro

[10] Moritz Thausing, Franz Wickhoff, and Alois Riegl were prominent critics from the influential School of Art History in this city, which was the home of the Secessionist movement of Gustav Klimt.

ANSWER: Vienna

11. These compounds are produced by reacting beta-ketoesters with ammonia and alpha-haloketones in the Hantzsch synthesis. For 10 points each:

[10] Name these heterocyclic compounds with formula C<sub>4</sub>N<sub>4</sub>H<sub>4</sub>. They can be considered as cyclopentadiene with nitrogen substituting for one carbon.

ANSWER: pyrrole

[10] Connecting four pyrroles via methine bridges produces this macrocycle structure. Derivatives of this structure complex with iron in heme.

ANSWER: porphyrins [or porphin]

[10] Vitamin B-12 complexes with cobalt with this variant structure with 19 carbons in the macrocycle instead of 20. Its structural differences cause the conjugated system to only extend partway around the ring, in contrast to porphyrins.

ANSWER: corrin



12. Her most famous portraits include those of John Simpson, Lady Elizabeth Foster, and David Garrick. For 10 points each:

[10] Name this Swiss Neoclassical painter of many Shakespearean scenes, including *Miranda and Ferdinand*. She also painted *The Mother of the Gracchi*.

ANSWER: Angelica **Kauffman**

[10] Kauffman was one of only two female founding members of the Royal Academy. The Academy's collection includes the *Taddei Tondo* by this Renaissance sculptor, whose other works include a tomb for Pope Julius II.

ANSWER: **Michelangelo** di Lodovico Buonarroti Simoni

[10] This president of the Royal Academy from 1878 to 1896 painted *The Painter's Honeymoon* and depicted a woman in golden robes curled up sleeping in *Flaming June*.

ANSWER: Frederic **Leighton**, 1st Baron Leighton

13. This character performs an *umbanda* ritual with his lover Amparo in Brazil. For 10 points each:

[10] Name this character, who hides in the Musee des Arts et Metiers after concocting "The Plan" with his fellow publishers Diotallevi and Jacopo Belbo.

ANSWER: **Casaubon**

[10] Casaubon narrates this novel by Umberto Eco about a fake conspiracy to use the title device to search for "telluric currents."

ANSWER: **Foucault's Pendulum** [or *Il pendolo di Foucault*]

[10] This Eco novel consists of the diaries of Simone Simonini, who forges the note that sets off the Dreyfus affair and writes *The Protocols of the Elders of Zion*.

ANSWER: *The* **Prague Cemetery** [or *Il cimitero di Praga*]

14. In the aftermath of this event, Leonard Dacre seized Greystoke Castle. For 10 points each:

[10] Name this 1569 event in which nobles such as Charles Neville, Earl of Westmorland and Thomas Percy, Earl of Northumberland attempted to restore a Catholic monarch to the throne of England.

ANSWER: The **Rising** of the **North** [or **Revolt of the Northern Earls**; or **Northern Rebellion**]

[10] The Rising of the North was an attempt to bring this woman to the English throne. Her cousin, Elizabeth I, placed her under house arrest in a series of different houses over the course of nineteen years.

ANSWER: **Mary, Queen of Scots** [or **Mary Stuart**; or **Mary I of Scotland**; prompt on **Mary**]

[10] This pope attempted to aid The Rising of the North by excommunicating Elizabeth I with the papal bull *Regnans in Excelsis*. This pope also founded the Holy League that won at the Battle of Lepanto.

ANSWER: **Pius V** [prompt on **Pius**]

15. This work postulates that the "good" that is opposed to "bad" is in conflict with the "good" that is opposed to "evil." For 10 points each:

[10] Name this Nietzsche work opening "We knowers are unknown to ourselves." It claims that the master morality judges actions based on consequences, whereas the slave morality judges actions based on intentions.

ANSWER: *On the* **Genealogy of Morals** [or *On the* **Genealogy of Morality**; or **Zur Genealogie der Moral**]

[10] In *On the Genealogy of Morality*, Nietzsche introduced this term for men whose leonine intellectual predatory instincts make them a superior type. He used this term again in *The Twilight of the Idols*.

ANSWER: the **blond beast** [or **blonde Bestie**]

[10] The second treatise of *The Genealogy of Morals* argues that the origin and utility of historical facts must be differentiated due to the will to power. It adduces this point by considering the different uses of this social behavior, which, per the text, increases alienation, the opposite of its obvious use.

ANSWER: **punishment** [accept close equivalents]

16. The final step of this process oxidizes malate to produce oxaloacetate. For 10 points each:

[10] Name this cycle which follows glycolysis in cellular respiration.

ANSWER: citric acid cycle [or tricarboxylic acid cycle; or Szent-Györgyi-**Krebs** cycle]

[10] In the citric acid cycle, this compound is a substrate in the production of fumarate from succinate. This compound is also responsible for passing electrons to cytochrome c in the electron transport chain.

ANSWER: coenzyme **Q10** [or **CoQ10** or ubiquinone; or ubidecarenone]

[10] Coenzyme Q10 is a product of farnesyl-PP produced in this pathway, which also produces cholesterol and is therefore targeted by statins.

ANSWER: mevalonate-dependent pathway [or **MAD**; or HMG-CoA reductase pathway; or isoprenoid pathway]

17. Answer the following about sociolinguistics, for 10 points each.

[10] This phenomenon occurs when multilingual speakers use multiple languages in one context, without compromising the syntax or phonology of each language.

ANSWER: code-switching

[10] This American sociolinguist and author of *Principles of Linguistic Change* asked clerks in New York City department stores to say “fourth floor” in one study. He founded variationist sociolinguistics.

ANSWER: William **Labov**

[10] In *Class, Code, and Control*, this British sociolinguist developed the theory of language codes, which he divided into elaborated and restricted types.

ANSWER: Basil **Bernstein**

18. Joseph Fields and Jerome Chorodov adapted her novel *The Ponder Heart* for Broadway. For 10 points each:

[10] Name this Southern author, who wrote about Laurel Hand’s visit to take care of Judge McKelva in *The Optimist’s Daughter*.

ANSWER: Eudora **Welty**

[10] In this short story by Welty, Phoenix Jackson travels a treacherous road through the woods to get medical supplies for her grandson.

ANSWER: “A **Worn Path**”

[10] In Welty’s short story “First Love,” a 12-year old bootblack witnesses the trial of this real-life historical figure. A novel about this figure is narrated by Charlie Schuyler.

ANSWER: Aaron **Burr**

19. Nicolas Maduro recently won a disputed election in this nation. For 10 points each:

[10] Name this country which, for the first time in years, is no longer run by Hugo Chavez.

ANSWER: Bolivarian Republic of **Venezuela**

[10] This man, who led opposition to Hugo Chavez, lost to Maduro by a narrow margin and is challenging the results of the election.

ANSWER: Henrique **Capriles** Radonski

[10] Further south, this former guerilla is making headlines by living in poverty and donating 90% of his salary to charity, despite being President of Uruguay.

ANSWER: Jose (Alberto) “Pepe” **Mujica** (Cordano)

20. He coined the term “All politics is local.” For 10 points each:

[10] Name this Speaker of the House during the Carter administration as well as most of the Reagan administration.

ANSWER: Thomas Phillip "Tip" **O'Neill**, Jr.

[10] O'Neill first became House Majority leader after Hale Boggs was killed in one of these events in Alaska.

Another of these vents killed Minnesotan Paul Wellstone in 2002 and Missourian Mel Carnahan in 2000.

ANSWER: **Plane Crash** [accept obvious equivalents like **Plane Accident**, etc.]

[10] O'Neill succeeded this Speaker who was implicated in the Tongsun Park scandal.

ANSWER: Carl Bert **Albert**