

## Stevenson Memorial Tournament 2018

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### Packet 6

#### Tossups:

1. **This province's largest lake is Lake Mistassini, which is fed by the Rupert River. A hydroelectric project in this province has sites on the Eastmain River. This province is home to magma intrusions known as the Monteregian Hills. The Chic-Choc Mountains are located in this province, where the Nord and (\*) St. Maurice Rivers rise from the Laurentian Mountains. The Manicouagan Crater is in this province, which borders Ungava Bay. The Plains of Abraham are located outside the capital of this province, which includes the Gaspé Peninsula in its south. This province largest city lies at the confluence of the Ottawa and St. Lawrence Rivers. For 10 points, name this Canadian province that contains Montreal.**

ANSWER: **Quebec**

<GP Geography>

2. **During this military campaign, the bad grammar and factual errors in the propaganda issued from the region's first printing press was ridiculed by the historian Al-Jabarti. A 167-man Commission of the Sciences and Arts that was nicknamed the "savants" accompanied this campaign, during which they began work on a massive illustrated encyclopedia called *The Description*. In a setback for this campaign, a force led by the ships *Goliath* and *Zelous* blew up the *Orient* in an attack on a (\*) fleet anchored at Aboukir Bay. Thomas Young and Jean-François Champollion used an object found by soldiers during this campaign by studying the demotic text inscribed on it. The invaders in this campaign defeated the local Mamluks before withdrawing. For 10 points, the Rosetta Stone was unearthed and the Battle of the Pyramids were fought during what campaign of Napoleon's?**

ANSWER: **Napoleon's** Invasion of **Egypt** [or the **French** Invasion of **Egypt**; prompt on the **Napoleonic** or **French** invasion of **Africa**]

<JB European History>

3. **A character in an opera by this composer grieves with her nurse Ericlea as she sings about "Di misera regina." In another opera by this composer, a character sings "Possente spirito" to try to convince a man to let him through after Speranza leaves him. A recitative by this composer opens with a character repeating the words "Lasciatemi morire," or "let me die." An opera by this composer based on a Torquato Tasso poem contains one of the earliest uses of string (\*) tremolo. The protagonist of one of this composer's operas kills the suitors of his wife with a bow after he returns by boat to Ithaca. A lost opera by this composer depicted Ariadne's time on Naxos, *L'Arianna*. This composer wrote what is currently the earliest surviving opera still performed regularly. For 10 points, name this composer of *Il ritorno d'Ulisse in patria* and *L'Orfeo*.**

ANSWER: Claudio **Monteverdi**

<YFL Music and Opera>

4. A character in this story recalls a boy named Ronnie singing “Bertie, why do you bound?” to annoy his sister. After his departure, a character in this story who carries letters of introduction written by his sister is described as having once spent a night “in a newly dug grave” on the banks of the Ganges to escape a “pack of pariah dogs.” In this story from *Beasts and Superbeasts*, an attempt at a (\*) “nerve cure” is foiled by a girl’s description of the “great tragedy,” in which three men go snipe-hunting and never return. After Framton Nuttel is frightened into fleeing, the narrator of this story remarks of Mrs. Sappleton’s niece Vera that “Romance at short notice was her specialty.” For 10 points, name this short story by Saki titled for a wall aperture.

ANSWER: “The **Open Window**”

<OL British Literature>

5. One example of these systems, known as VGG-16, is especially useful for image segmentation. RMSprop, Adam, and Nesterov momentum are all methods of optimizing these systems. One type of these systems is composed of LSTM units, which are made of input, output, and forget gates. Dropout and early stopping are methods for “regularizing” these things to reduce (\*) overfitting. These systems can be trained by using backpropagation and gradient descent. Images are handled especially well by the “convolutional” type of these systems, and they are called “deep” when they have multiple hidden layers. For 10 points, name these computational structures inspired by the connections of namesake cells in the human brain.

ANSWER: artificial **neural networks** [or **ANNs**; accept convolutional **neural networks** or **CNNs**; accept recurrent **neural networks** or **RNNs**; do not accept or prompt on “neurons” or “artificial neurons”]

<AR CompSci>

6. In Ancient Rome, the *lares publici* spirits were honored with the hanging of wool dolls at these places during the Compitalia festival. A god associated with these places has a Petro aspect named Kalfu, is depicted as a old man with a walking stick, and is petitioned for access to the realm of Guinee. In England, the bodies of suicides were traditionally staked through the heart and buried at these places. In (\*) Voodoo, the loa Papa Legba serves as the guardian of these places. The belief that a “black man” would bestow a skill upon petitioners at one of these places gave rise to the legend of blues musician Robert Johnson selling his soul to the devil at one of them. For 10 points, identify these intersections of thoroughfares.

ANSWER: **crossroads** [prompt on **roads** or **intersections**]

<JB Religion>

7. Garden City-like ideas about urban planning were advocated by this city’s resident Camillo Sitte [“ZIT-uh”]. Karl Marx Court and other social housing projects were built in this city during its “Red” period in the 1920s. A chapter on “the Birth of Urban Modernism” from Carl Shoerske’s book on the *fin-de-siècle* [“FAN-duh-see-ECK”] culture of this city discusses a street in this city that, in a renewal effort contemporaneous with Haussmann’s [“ohss-MAHN’s”] work in Paris, was built along the old city (\*) walls and surrounded by historicist buildings. Many of this city’s parks were built under its mayor Karl Lueger, whose anti-Semitic rhetoric likely inspired one-time resident Adolf Hitler. This city’s Ringstrasse boulevard surrounded the epicenter of its pre-World War I coffee house culture and was the site of Sigmund Freud’s daily walks. For 10 points, name this capital of Austria.

ANSWER: **Vienna**

<JB European History>

8. The speaker recalls how this man “said he would be back and we’d drink wine together” in Muriel Rukeyser’s poem about “Waiting for” this man. A poem notes how “the whole pageantry of the year was awake tingling” when this person died. Another poem compares this figure’s demise with a “dreadful martyrdom” occurring nearby where “the dogs go on with their doggy life.” That poem about this person notes how “everything turns away / Quite leisurely from the disaster.” A (\*) ploughman is mentioned in William Carlos Williams’s poem about a painting of this figure’s death. The words “About suffering they were never wrong, / The old Masters” opens a poem inspired by Brueghel’s painting of this figure drowning, W. H. Auden’s “Musée des Beaux Arts.” For 10 points, name this mythical boy who flew too close to the sun while wearing wax wings.

ANSWER: Icarus

<JB American Literature>

9. Austronesian languages like Sursurunga have a variant of this property called the paucal. This property is often created using what Hockettians call “the morpheme [this property],” but which Bloomfieldians name after a specific letter. In Korean, this property can be emphasized with the addition of the suffix *-deul* [“rhymes with pull”]. An experiment by Jean Gleason used pictures of small blue bird-like creatures to show that children generalize rules concerning this property; that is the wug test. Some languages have both “massive” and (\*) “numerative” forms of this property. When applying this property to compound nouns in English, the first word is typically inflected and the second left unchanged. In Hebrew, masculine nouns are given this property by adding the suffix *-im* [“eem”]. For 10 points, name this property that in English is usually created by adding “s” to the end of nouns.

ANSWER: plurality [or grammatical number; or quantity; accept word forms like pluralization or being plural or descriptive answers like there’s more than one; accept singular until “morpheme” is read]

<JK Social Science>

10. This compound can condense with malonic acid to form barbituric acid. Poorly-soluble derivatives of this compound are produced when using DCC as a peptide coupling agent. The presence of this compound’s radiolabelled breakdown products in exhaled breath is indicative of infection by *Helicobacter pylori*. This compound is produced along with ammonium chloride when phosgene reacts with ammonia. Friedrich (\*) Wöhler [“VER-ler”] treated silver cyanate with ammonium chloride to produce this compound in the first example of the generation of an organic compound from inorganic precursors. The first metabolic cycle to be discovered was the pathway for the formation of this compound from ammonia in the liver and kidneys. For 10 points, name this compound excreted in urine.

ANSWER: urea

<EM Biology>

11. Two of these objects, covered in papier-mâché and connected by a surgical hose, make up Eva Hesse’s *Ingeminate*. At the same time that he sold *Artist’s Shit* stored in cans, Pietro Manzoni sold *Artist’s Breath* stored in these objects. Before the steel version was installed, the red vinyl top of Claes Oldenburg’s *Lipstick Ascending on Caterpillar Tracks* was one of these objects. A sculpture resembling a group of magenta objects of this sort was placed in the Palace of (\*) Versailles in a controversial 2008 exhibition. The most expensive artwork by a living artist, which was sold for 58.4 million dollars in 2013, is an orange sculpture that imitates these objects with polished stainless steel surfaces. For 10 points, Jeff Koons is known for his large sculptures of dogs that appear to be made out of what objects?

ANSWER: balloons [or blow-up objects; or inflatable objects]

<JB Visual FA>

12. A philosopher from this country wrote an existentialist text whose first chapter discusses “The Man of Flesh and Bone.” A medieval thinker from this modern-day country described a wheel-like device used for generating arguments to convert nonbelievers in his *Ars Magna*. A philosopher from this country declared that “I am myself and my circumstances” in one book and analyzed the concept of the “mass-man” in another, *The (\*) Revolt of the Masses*. The author of *The Tragic Sense of Life* is from this country, as is the author of a book that argues that since both belief and nonbelief can’t be proven, “philosophy begins in media res.” For 10 points, name this country home to Ramon Llull [“ruh-MOAN L’YOOL”], Francisco Suárez, and the author of *Skepticism and Animal Faith*, George Santayana.

ANSWER: Spain [or España]

<YFL Philosophy>

13. Some accounts claim that Empedocles left a “brazen” one of these objects behind in reference to Hecate when he jumped into Mount Etna, though Diogenes Laertius claims the volcano spit out one of these things after his death to show he was lying about becoming a god. Homer used the words “ambrosia khryseia,” or divine and golden, to describe some of these objects known as the Talaria. They aren’t swords or shields, but after sleeping with Aethra, (\*) Aegeus left some of these objects under a rock for Theseus. Pelias was told to be wary of a man with one of these objects, which turned out to be a hero who lost one while helping Hera cross the river Anaurus, Jason. Along with Hades’ helmet, Perseus was loaned two of these objects to help him defeat Medusa. For 10 points, Hermes owned winged objects of what sort?

ANSWER: sandals [or pedila; prompt on shoes or synonyms]

<JK Myth>

14. During this election, a series of ads focused on the pollution of a harbor in one candidate’s home state, whose economic “miracle” he claimed credit for. A primary candidate in this election asked why he was the “first in his family ever to go to a university” in a speech plagiarizing Neil Kinnock. The frontrunner in this election’s Democratic primary suspended his campaign after images circulated of Donna Rice sitting on his lap on a yacht. During this election’s (\*) vice-presidential debate, Lloyd Bentsen told his opponent that “you’re no Jack Kennedy.” Gary Hart ran in this election. The losing candidate in this election was targeted in an ad blaming him for releasing the murderer Willie Horton, and the winning candidate in this election said “Read my lips, no new taxes.” For 10 points, Michael Dukakis lost what election to George H. W. Bush?

ANSWER: US Presidential Election of 1988 [prompt on Election of ’88]

<GP American History>

15. This quantity is multiplied by  $U$  in the Foldy–Wouthuysen transformation. When this quantity can be decomposed into an exponential component and a periodic component, Bloch’s theorem applies. Working with the Klein–Gordon equation shows that this quantity for a positive energy state is the complex conjugate of this quantity for a negative energy state. For bosons under exchange, this quantity remains (\*) symmetric as opposed to its antisymmetric nature for fermion exchange. The first radial one of this quantity for a hydrogen atom, derived using a product of spherical harmonics and this quantity normalized, contains an  $e$  to the negative  $r$  over  $a$ -nought term. The magnitude squared of this quantity, which must be one when integrated according to the normalization condition, gives the probability density of a particle having a given momentum. For 10 points, name this quantity symbolized psi that describes the quantum state of a system.

ANSWER: wavefunction

<DM Physics>

16. This event was encouraged by the Forty Group, a criminal society named for the year of its members' military service. The oath-taking campaign that spread among squatters prior to this event was alleged to require participants to strip naked and drink blood at a trial of six of its alleged leaders. Based on their level of cooperation, prisoners during this conflict were classed as "white," "grey," and "black" by the pipeline system of Thomas Askwith. This event prompted a (\*) State of Emergency to be declared by Evelyn Baring, and it was begun by the Land and Freedom Army. Dedan Kimathi and General China were leader of the Kikuyu participants in this event, during which Jomo Kenyatta was put on trial. For 10 points, name this 1950s rebellion against British rule in Kenya.

ANSWER: Mau Mau Uprising

<GP World History>

17. One of this author's plays was adapted by Japanese playwright Ai Nagai into a comedy about the Hagi family; that play ends "If we only knew... if we only knew." One of this author's characters is mocked for her ugly green sash, but she later dominates her husband and his family, openly cuckolding him with Protopopov. This author wrote about a spinster who reluctantly becomes the headmaster of the high school, (\*) Olga, in a play that begins at a name-day celebration for Irina, the youngest of the women mentioned in that play's title. In another play by this author, Ranevskaya tearfully sells the title estate, and the play ends with the sound of trees being cut down. For 10 points, name this Russian dramatist of *Three Sisters* and *The Cherry Orchard*.

ANSWER: Anton Chekhov

<JK European Literature>

18. A painting alleged to plagiarize a painting of this figure was repainted to include a portrait of the accuser as the devil, to which the latter responded with crude poems addressed to "John Testicle," Giovanni Baglione. This figure stands before a pile of items like a lute and an astral sphere in that painting of him "victorious" by Caravaggio. Another painting depicts a possibly syphilitic woman with greenish skin clutching her head behind this male figure, and a (\*) girl with a honeycomb and a snake's tale looking towards him. This figure is depicted as an adolescent fondling the breast of a woman in front of a blue sheet held by an old man in that painting, in which he and his mother are depicted with Folly and Time. For 10 points, Agnolo Bronzino painted an allegory of Venus and what son of hers?

ANSWER: Cupid [or Amor; or Eros]

<JB Painting and Sculpture>

19. Near the end of this novel, a Loyalty Temple is erected in honor of a man who had earlier compared himself to a "shrewd and intelligent" tiger in a poem composed while drunk. A "sagacious" character in this novel, whose torso is covered in flower tattoos, shows off his strength by uprooting a willow. A man nicknamed "Black Whirlwind" and a man whose romantic exploits are chronicled by (\*) *The Golden Lotus* both kill tigers in this novel. The "heavenly spirits" and "earthly fiends" that make up the "stars of destiny" of this novel oppose the corrupt Gao Qiu ["ch'YOH"] from their lair near Mount Liang. For 10 points, name this book that follows 108 bandits led by Song Jiang during the Song Dynasty, one of the four Chinese classic novels.

ANSWER: Water Margin [accept the Outlaws of the Marsh or All Men Are Brothers or Shuihu Zhuan]

<OL World Literature>

20. In this organism, studies of the R8 photoreceptor led to the elucidation of the activation of Ras by the binding of Boss to the receptor tyrosine kinase Sev. The first transcription-translation feedback loop, wherein the proteins Per and Tim repress their own transcription, led to the elucidation of the mechanism of circadian rhythms in these organisms by Hall, Rosbash, and Young. The (\*) salivary glands of this model organism contain giant polytene chromosomes. Genes involved in the determination of this organism's sex include sisterless, deadpan, and sex-lethal. Thomas Hunt Morgan studied its heredity and sex linkage in this model organism's namesake room at Columbia. For 10 points, name this insect model organism with scientific name *Drosophila melanogaster*.

ANSWER: **fruit fly** [accept *Drosophila melanogaster* until "Drosophila" is read; prompt on fly]

<DM Biology>

21. The decision to calculate the date of this holiday according to Roman rather than Irish practices in the Northumbrian Synod of Whitby was detailed in an account by the Venerable Bede ["bead"]. The miracle of Holy Fire occurs on the day before this holiday at the Church of the Holy Sepulchre. Five grains of incense, a cross, and the letters (\*) alpha and omega are inscribed on a large candle lit every year on this holiday. The computus is used to determine the calendar date of this holiday. The Exsultet is a hymn sung during the vigil of this holiday. The Council of Nicaea ["nice-EE-ah"] opposed the tradition of celebrating this holiday based on the Jewish calendar and the date of Passover. The 40 days of Lent precede, for 10 points each, what holiday that celebrates the resurrection of Jesus?

ANSWER: **Easter** Sunday [accept **Pasch** or **Pascha**; accept **Resurrection Sunday**]

<YFL Religion>

**Bonuses:**

1. This economist posited “transaction utility” to explain why people don’t follow the predictions of classical microeconomics. For 10 points each:

[10] Name this author of the column *Anomalies* in the *Journal of Economic Perspectives*. His interest in those anomalies led him to develop the field of behavioral economics with people like Kahneman and Tversky.

ANSWER: Richard **Thaler**

[10] In 2017, Thaler became the 18th professor at this university to win the Nobel Prize in Economics. Ironically, he has argued against its namesake “School” of neoclassical economics championed by Milton Friedman.

ANSWER: University of **Chicago** [prompt on **Booth School of Business**]

[10] In their book *Nudge*, Thaler and his colleague Cass Sunstein argued for “architecture” around these things. A theory named for these things assumes that preferences are complete and transitive, and that agents maximize utility.

ANSWER: **choices** [or **choice** architecture or rational **choice** theory]

<JK Social Science>

2. This poem states that “there is pleasure in the pathless woods” and “rapture in the lonely shore.” For 10 points each:

[10] Name this poem separated into “To Ianthe” and four cantos. The speaker beseeches the sea to “roll on” and notes “Ten thousand fleets sweep over thee in vain” in its concluding stanzas, often called the “Apostrophe to the Ocean.”

ANSWER: ***Childe Harold’s Pilgrimage***

[10] This poem by the writer of *Childe Harold’s Pilgrimage* begins “Bob Southey! You’re a poet” and reverses the usual depiction of the title character by making him easily seduced instead of a seducer.

ANSWER: ***Don Juan***

[10] This poet of *Childe Harold’s Pilgrimage* and *Don Juan* [“JOO-un”] wrote about “a heart whose love is innocent” in “She Walks in Beauty.”

ANSWER: Lord George Gordon **Byron**

<OL British Literature>

3. Oppenheimer supposedly quoted this text after witnessing the first nuclear explosion. For 10 points each:

[10] Name this dialogue between Arjuna and his charioteer Krishna, the origin of the quote “Now I am become death, destroyer of worlds.”

ANSWER: ***Bhagavad Gita*** [or the ***Song of the Lord***]

[10] Arjuna is a member of this five-member group, the sons of Kunti and Madri. These husbands of Draupadi defeated the Kauravas during the Kurukshetra War.

ANSWER: **Pandavas** [or the **sons** of **Pandu**]

[10] While Krishna is generally considered to be the eighth avatar of Vishnu, following Rama, sometimes the spot is given to this other deity. He was usually considered the older brother of Krishna and avatar of Shesha.

ANSWER: **Balarama** [or **Baladeva** or **Balabhadra** or **Haladhara** or **Halayudha**]

<JK Mythology>

4. A Catholic university was divided into separate campuses for these two languages after a student march against speakers of one of them. For 10 points each:

[10] Name these two languages. The protection of one against the other is advocated by the far-right Vlaams Belang, and both are officially recognized in the smallest of the four “language areas” of a country where they are spoken.

ANSWER: **Dutch** AND **French** [accept **Flemish**, **West Flemish**, **Vlaams**, or **West-Vlaams** in place of “Dutch”]

[10] A variety of Dutch called Flemish is primarily spoken in this region of Belgium, which is north of French-speaking Wallonia. A medieval wool market thrived in this region’s city of Bruges [“broozh”].

ANSWER: **Flanders** [or **Vlaanderen**]

[10] The protests that split the University of Leuven occurred in this year, during which the ideas of the Situationist International helped spark spontaneous wildcat strikes in another country.

ANSWER: **1968** [prompt on ’68]

<JB European History>

5. This song changes the admonishment “someone to hold you too close” to the plea “somebody hold me too close.” For 10 points each:

[10] Name this song sung by Bobby at his 35th birthday party. In this song, Bobby characterizes love as “someone to sit in your chair and ruin your sleep.”

ANSWER: “**Being Alive**”

[10] “Being Alive” is the final song in *Company*, a musical by this composer and lyricist best known for writing the musical *Sweeney Todd: The Demon Barber of Fleet Street*.

ANSWER: Stephen **Sondheim**

[10] In *Sweeney Todd*, this daughter of the main character falls in love with Anthony but is actually promised to the corrupt Judge Turpin. Her namesake song is sung by Anthony, who says that “I was half convinced I’d waken, satisfied enough to dream you.”

ANSWER: **Johanna** Barker

<YFL Other Arts (Musical Theater)>

6. The unit for this quantity is the farad. For 10 points each:

[10] Name this quantity that equals epsilon-naught times area over distance for a set of parallel plates. It’s defined as the ability of an object to hold electrical charge.

ANSWER: **capacitance**

[10] This form of spectroscopy studies the capacitance of semiconductors at high frequencies to observe “traps” caused by crystal defects.

ANSWER: **deep-level transient spectroscopy** [prompt on partial answer]

[10] When deriving the capacitance of a given shape, these imaginary surfaces are used to calculate the electric flux. A cylindrical one of them is used to derive the electric field of an infinite plate of charge.

ANSWER: **gaussian** surface

<DM Physics>



7. In an official portrait by this artist, the subject sits against a foliage backdrop featuring chrysanthemums, jasmine, and blue lilies. For 10 points each:

[10] Name this New York-based artist known for his photorealist paintings of African-American men in front of textile-like backgrounds or inserted into classical artworks.

ANSWER: Kehinde **Wiley**

[10] That aforementioned official portrait depicts a holder of this position. The 43rd holder of this position published *Portraits of Courage*, a book of paintings of veterans, in 2017.

ANSWER: **President** of the United States of America [or **POTUS**]

[10] Wiley's version of this Jacques-Louis David painting replaces its subject with a man in a gold cape and camo. This painting depicts an emperor of France at the St. Bernard Pass, pointing the way forward from his rearing horse.

ANSWER: ***Napoleon Crossing the Alps*** [or ***Napoleon Leading the Army Over the Alps***; or ***Bonaparte Crossing the Alps***]

<JB Painting and Sculpture>

8. When told a story about how this ruler had had an affair with the queen of the Amazons, one of his generals jokingly asked where he had been at the time. For 10 points each:

[10] Name this Macedonian ruler who conquered the Persian Empire.

ANSWER: **Alexander the Great** [or **Alexander III**; prompt on **Alexander**]

[10] According to one of the Alexander romances, Alexander also had a romantic encounter with a holder of this title, which was taken by queens who ruled the Kingdom of Kush from Meroë.

ANSWER: **Kandake** [or **Candace**]

[10] In another story, Alexander's mother was secretly impregnated by a ruler from this country. Alexander was supposedly told he was a god at Siwa in this country, where one of his generals known as "Soter" founded a successor kingdom.

ANSWER: **Egypt**

<CH World History>

9. In a recent performance, this actor played a small human in *Downsizing*. For 10 points each:

[10] Name this Bostonian. This actor played the title character in *Good Will Hunting*, which he co-wrote with Ben Affleck, and plays Jason Bourne in four thrillers.

ANSWER: Matthew Paige **Damon**

[10] Matt Damon played Mark Watney in this film, an adaptation of a 2011 novel of the same name. In it, Damon's character uses his own feces to fertilize soil and grow potatoes after being abandoned by the Ares III mission.

ANSWER: *The **Martian***

[10] This author of *The Martian* recently released a novel about Jazz Bashara's experiences as a moon colonist and criminal titled *Artemis*.

ANSWER: Andy **Weir**

<OL Trash>

10. A poem by this writer titles the Salinger short story *Raise High the Roofbeams, Carpenters*. For 10 points each:  
[10] Name this poet who described a “peer of the gods” in “Ode to Anactoria.” This poet wrote a poem that describes the title goddess as “iridescent throned” and “deathless,” entitled “Ode to Aphrodite.”

ANSWER: **Sappho**

[10] This author translated Sappho in *If not, winter*. Her 2013 novel *Red Doc* serves as a sort of sequel to a novel about the early life of Geryon and Heracles, *Autobiography of Red*.

ANSWER: Anne **Carson**

[10] Heracles also appears in *The Birds*, a play by this writer of *Lysistrata*. This Athenian comic playwright described a young man’s time at the Thinkery in *The Clouds*.

ANSWER: **Aristophanes**

<OL Classical Literature>

11. Juanita Brooks is best known for her books about this event, which her grandfather Dudley Leavitt may have participated in. For 10 points each:

[10] Name this event. The only person tried for participating in it, John D. Lee, said “I have been sacrificed in a cowardly, dastardly manner” before being executed by firing squad.

ANSWER: **Mountain Meadows** Massacre

[10] The perpetrators of the Mountain Meadows Massacre were from this religious group that came to Utah under the leadership of Brigham Young. Their first leader, Joseph Smith, was murdered by a mob in Carthage, Illinois.

ANSWER: Church of **Latter-Day Saints** [or **LDS**; or the **Mormon** Church]

[10] The Mormons left this state after Governor Lilburn Boggs issued the “extermination order” against them. This state, where Joseph Smith located the Garden of Eden, entered the Union as a slave state when Maine entered as a free state.

ANSWER: **Missouri**

<GP American History>

12. Books by Raphael Patai and William Dever used archaeological evidence to argue for the existence of this figure. For 10 points each:

[10] Name this role that Asherah had before it was removed from the Bible according to one theory. This figure is an infrequently-discussed part of official Mormon doctrine.

ANSWER: **God’s wife** [or equivalents of **God’s consort**; or the **Heavenly Mother**; or the **Mother in Heaven**; accept **Yahweh** in place of “God”]

[10] Books such as Merlin Stone’s *When God Was a Woman* have advanced the idea that monotheistic societies replaced goddess-worshipping societies of this sort. Women hold power in these societies, in contrast to patriarchies.

ANSWER: **matriarchal** societies [or **matriarchies**]

[10] The theory of a transition away from Goddess worship was also discussed by this man on the PBS documentary series *The Power of Myth*. He also wrote *The Hero with a Thousand Faces* and *The Masks of God*.

ANSWER: Joseph **Campbell**

<JB Religion>

13. One of these creatures turns into a “wine skin with gluey sides” in an erotic poem. For 10 points each:

[10] Name these creatures that enter a “plaintive heart” like “the stab of a knife” in that poem. Laura is romantically pursued by one of these creatures named Carmilla in a Sheridan Le Fanu novella.

ANSWER: **vampires**

[10] This poet of The Vampire’s Metamorphoses is most famous for a collection that opens with a poem addressed “To the Reader.” This French Symbolist included “The Sick Muse” in *Les Fleurs du Mal*.

ANSWER: Charles **Baudelaire**

[10] Baudelaire observes “how beautiful the Sun is when newly risen” in a poem titled for the “sunset” of this movement. The preface to *Lyrical Ballads* influenced this movement by describing poetry as the “spontaneous overflow of powerful feelings.”

ANSWER: **romanticism** [or “The Sunset of **Romanticism**”]

<OL European Literature>

14. This technique is often used to track the alpha-globin component of hemoglobin over time. For 10 points each:

[10] Name this tool that estimates the time at which a phylogenetic tree diverges by tracking the mutation rate of a certain gene.

ANSWER: **molecular clock**

[10] Some molecular clocks use a kind of modeling named for this man. That modeling uses posterior and anterior distributions with this man’s namesake conditional probability law.

ANSWER: Thomas **Bayes**

[10] One form of molecular clock tracks the mutations in this organelle of humans, which only contains maternal DNA.

ANSWER: **mitochondria** [or **mitochondrion**]

<DM Biology>

15. In 2013, this man was succeeded as Director of the FBI by James Comey, before being appointed to his current post by Deputy Attorney General Rod Rosenstein. For 10 points each:

[10] Name this Republican Special Counsel for the Department of Justice, who is currently overseeing an investigation into Russian interference in the 2016 US Presidential Election.

ANSWER: Robert “Bob” Swan **Mueller** III

[10] This former Trump campaign advisor entered a plea deal with Mueller, which resulted in additional charges for him and Paul Manafort, such as conspiracy against the United States from when they lobbied for Ukraine.

ANSWER: Richard “Rick” W. **Gates** III

[10] Gates and Manafort were lobbyists for this pro-Russian Ukrainian Party. Former President Viktor Yanukovich was the first member of this party to be elected president before leaving office in 2014.

ANSWER: Party of **Regions** [accept *Partiya **regionov***]

<AN Current Events>

16. This composer was commissioned by Sergei Diaghilev to rewrite his pantomime ballet *The Magistrate and the Miller's Wife*. For 10 points each:

[10] Name this composer who wrote *The Three-Cornered Hat* and the gypsy-influenced ballet *Love, the Magician*.

ANSWER: Manuel de **Falla** y Matheu

[10] Manuel de Falla is a composer from this country whose musical traditions include zarzuela and flamenco.

ANSWER: **Spain** [accept **España**]

[10] Falla wrote a concerto for this instrument for Wanda Landowska, a Polish-French musician who re-popularized this instrument. Other works for this instrument include Francis Poulenc's ["frawn-SEES poo-LANK's"] *Concert Champêtre* ["con-SAIR shawm-PET"] and "Continuum."

ANSWER: **harpsichord**

<YFL Music and Opera>

17. Hirano bodies are aggregates of this protein in neurons. For 10 points each:

[10] Name this protein that works with myosin to facilitate muscle contractions found in microfilaments and thin filaments. It also facilitates cell motility and division.

ANSWER: **actin**

[10] Actin comes in a filamentous polymer form or a monomeric form denoted by this letter. Its crystal structure was elucidated by Kabsch in 1990.

ANSWER: **g** [accept **g**lobular actin]

[10] This phenomenon in actin occurs when one end of a filament grows in length while the other end seems to decrease, caused by the repeated removal of actin monomers from one end and addition to the other.

ANSWER: **treadmilling**

<DM Biology>

18. This novel's protagonist helps the Auteur direct a film, kills Ms. Mori's boyfriend Sonny, and is tortured by the "faceless man." For 10 points each:

[10] Name this novel by Viet Thanh Nguyen ["VEE-it tang win"] about a Communist spy. It won the 2016 Pulitzer Prize for Fiction.

ANSWER: *The **Sympathizer***

[10] This Tim O'Brien collection describes the narrator's childhood crush Linda dying from brain cancer in its last story. This collection also includes "How to Tell a True War Story."

ANSWER: *The **Things They Carried***

[10] Both *The Sympathizer* and *The Things They Carried* take place during this war. This war is foreshadowed by conflict in Graham Greene's *The Quiet American*.

ANSWER: **Vietnam** War

<OL American Literature>

19. Answer the following about stirrups in early medieval European history, for 10 points each.

[10] A technological deterministic thesis advanced by Lynn White controversially credits the introduction of the stirrup with the development of this political system in which vassals held fiefdoms under lords.

ANSWER: **feudalism**

[10] White cited this man's distribution of church lands to supporters who promised to serve in his mounted army. This leader used a phalanx formation to withstand the charge of Abd ar-Rahman's forces at a 732 battle.

ANSWER: Charles **Martel** [or **Charles** the **Hammer**; prompt on **Charles**]

[10] The stirrup was likely introduced to Europe by this nomadic people, who appeared in Europe and settled the Pannonian basin in the 6th century AD. Charlemagne fought multiple campaigns against this people's namesake khaganate.

ANSWER: **Avars**

<JB European History>

20. This phenomenon often leads to a band of warm water around the equatorial Pacific region. For 10 points each:

[10] Name this warm phase of the ENSO responsible for high air pressure in the west and low air pressure in the east. It is often contrasted with its feminine counterpart.

ANSWER: **El Niño**

[10] El Niño can lead to a reduction in this mechanism in the western coast of South America, by which nutrient-rich cold water rises to the surface. As a result, the fishing industry is greatly impacted in El Niño years.

ANSWER: **upwelling**

[10] The man who is credited with first identifying the El Niño also names this longitudinal circulation along the equatorial Pacific and tropics.

ANSWER: **Walker** circulation [or **Walker** cell]

<DM Earth Science>

21. This language is used to write a work in which "the drought of March... pierced to the root." For 10 points each:

[10] Name this language used to write books like *The House of Fame*, *The Parliament of Fowles*, and a collection in which three men try to conquer death and learn that "greed is the root of all evils."

ANSWER: **Middle English** [prompt on **English**; do not accept or prompt on "Old English"]

[10] The protagonist of this Jeffrey Eugenides novel is Cal, a descendant of Greek immigrants, who develops a crush on the Obscure Object while growing up in the Detroit suburbs.

ANSWER: **Middlesex**

[10] Dorothea Brooks is prevented from marrying Will Ladislaw in this "study of provincial life" by George Eliot. This novel opens with an epigraph from *The Maid's Tragedy*.

ANSWER: **Middlemarch: A Study of Provincial Life**

<OL British Literature>