

**Eisenhower Memorial Tournament 2017: Dunning-Kruger? I Hardly Know ‘Er!**

**Questions by Vasa Clarke, Ryan Humphrey, Alex Damisch, Jacob O’Rourke, Gabe Guedes, Charles Hang, and Alex Dzurick**

**Finals 1: Tossups**

1. *Autumn Leaves* was the only work this dancer ever choreographed. This dancer supposedly slapped a collaborator during a curtain call due to a botched *pas de deux* [“pah deh duh”] lift; that collaborator was Mikhail Mordkin, who this dancer met while on leave from the (\*) Mariinsky Theater. The British Royal Ballet adopted this dancer’s steps for an Act I solo in *Gisells* after they were first notated in the Stepanov notation in 1903. Camille Saint-Saëns [“say SAHN”] composed the music for and Michael Fokine choreographed a solo from the *Carnival of the Animals* that this ballerina performed over 4,000 times, *The Dying Swan*. For 10 points, name this early 20<sup>th</sup> century Russian ballerina.

ANSWER: Anna Pavlovna Pavlova <AWD, Other Art>

2. This quantity and mole fraction are correlated for a compound in the NRTL model for calculating phase equilibria. Another model for calculating this quantity, which appears on the y-axis of a UNIQUAC diagram, begins by breaking it into combinatorial and residual components. An expression equal to this quantity is obtained by differentiating the virial expansion of the Pitzer equation. For a dilute solution of known (\*) ionic strength, this quantity can be found with the Debye-Huckel limiting law. The fugacity coefficient and this quantity may be used to adapt Raoult’s law to non-ideal solutions. For 10 points, name this dimensionless correction factor, symbolized gamma, that accounts for a liquid’s deviation from an ideal solution.

ANSWER: activity coefficient [prompt on “activity”] <RH, Chemistry>

3. In some years, this river may flow entirely into a namesake sinkhole in the White Jurassic limestone formation. This river forms the western border of the historical territory of Dobruja, where many ethnic Turks fled to after the flooding of this river’s island of Ada Kaleh. The confluence of this river with the Drava is preserved by a nature park where tourists can ride a bike trail called the (\*) Pannonian Peace Route. Two large hydroelectric dams were built in the late twentieth century within this river’s Iron Gates. Until they were united, this river divided the neighboring cities of Buda and Pest. For 10 points, name this second-longest European river that passes through Bratislava, Belgrade, and Vienna on its way to the Black Sea.

ANSWER: Danube <VC, Geography>

4. In this novel, the protagonist approaches a man who is seemingly sleeping under a statue of a dancing nymph before they have a conversation in which he claims she is “going to be put into a cage.” The protagonist of this novel complains “it’s too lovely to be put in the newspapers” as she rejects the attempt of a reporter from the *Interviewer* to write an article about her uncle’s estate. In addition to (\*) Henrietta Stackpole, another character in this novel meets the protagonist in Florence and is revealed to have conceived his daughter Pansy during an affair with Madame Merle. This novel ends with the protagonist returning to Rome after comforting a dying Ralph Touchett. For 10 points, name this Henry James novel about the failed marriage between Isabel Archer and Gilbert Osmond.

ANSWER: Portrait of a Lady <GG, American Literature>

5. An agreement between this politician and Vladimir Putin would have run the South Stream pipeline from Russia to the country governed by this politician. After a 2009 earthquake, this world leader refused foreign aid from all countries except the United States, then encouraged victims to pretend that they were going camping for a weekend. This leader’s government also pursued manslaughter charges against six (\*) seismologists following that earthquake. On two separate occasions, this politician jokingly complimented Barack Obama’s suntan. This politician faced legal trouble for soliciting sex from the underage dancer Ruby Rubacuori. For 10 points, name this bunga bunga enthusiast who led the Forza Italia, a scandal-ridden former Prime Minister of Italy.

ANSWER: Silvio Berlusconi <VC, European History>

6. In one work by this artist, angels are depicted in clothes that are color-coordinated with each of the *Seven Sacraments*. A woman leans against an ornamental drapery while a man in red performs the title action in this artist's *St. Luke Drawing the Virgin*. John the Baptist wears an entirely blue robe and reaches toward the Virgin Mary in the central *Pieta* scene of this artist's *Miraflores Altarpiece*. Christ stands in front of a bright orange (\*) halo while holding a "globus cruciger" in another work by this artist. That work also includes sprawling lines of Latin text across its upper portion, and depicts a skull and sheaf of wheat when closed. Christ forms a direct eye-line with a skull, and is splayed out in the shape of a crossbow in another work by this artist currently on display in the Prado. For 10 points, name this early Flemish artist of the *Braque Triptych* and *Descent from the Cross*.

ANSWER: Rogier van der Weyden <RH, Painting>

7. In this novel, a character remembers accidentally landing on his sister's doll and suggesting that they burn it as a sacrifice. A woman in this novel is angered when her husband cuts their son's hair while he is sleeping and remembers meeting him at a Christmas party where she refused to dance with him. At Wiley Farm, the protagonist of this novel is introduced by Miriam to a woman who is nicknamed the (\*) "Queen of Sheba." In this novel, the affections of the protagonist's mother shift after his brother dies and he falls ill with pneumonia. A character in this novel returns to his house in Nottinghamshire after his relationship with Clara Dawes, only for his mother to die shortly after. For 10 points, name this D.H. Lawrence novel that focuses on the lives of the two Morel brothers.

ANSWER: Sons and Lovers <GG, British Literature>

8. One version of this technique suspends cells in a solution of lithium acetate and polyethylene glycol prior to incubating those cells on a synthetic dropout medium. pUC19 is a commonly-used positive control in this technique, and a treatment of alkaline phosphatase prior to the addition of DNA ligase is used to prepare a negative control for this technique. S.O.C. medium is primarily used to facilitate efficiency in this technique, and DMSO is typically added prior to the (\*) heat-shock step in this technique. That step, and electroporation, are used to prepare competent cells for use in this technique. The eukaryotic analog for this horizontal gene transfer technique is called transfection. For 10 points, name this process of horizontal gene transfer in which cells uptake foreign DNA, contrasted with conjugation and transduction.

ANSWER: bacterial/yeast/genetic transformation [accept lithium acetate or LiAc transformation] <RH, Biology>

9. The losers of the Battle of Rehe were forced to retreat to a demilitarized zone south of this feature, which was confirmed by the Tanggu Truce. At the disastrous Battle of Tumu near this location, the incompetence of the eunuch Wang Zhen resulted in the capture of the Zhengtong Emperor by Esen Taishi. During the (\*) Ming Dynasty, this location was split into "Inner" and "Outer" places starting west of Juyong Pass. This location was first established by Qin Shi Huangdi to protect against incursions from Xiongnu raiders. For 10 points, name this manmade location that consists of many fortifications in Northern China, which cannot be seen from space.

ANSWER: Great Wall of China [or Wanli Changcheng; or Wan-li Ch'ang-ch'eng; prompt on "Mongolia," "Inner Mongolia," "China," "Northern China," or "Manchuria"] <JO, World History>

10. One work about these entities begins by describing them as a "product of the earth" before discussing the need to "Strip Off the Medieval Myth" of them. These entities are the first of the two title entities in a work that cites the Tennessee Valley Authority as an example of a "transaction of decline". They're not nations, but that work discussing the relationship between these entities and prosperity has a title referencing the best-known work by Adam Smith. Lewis Mumford's "Renewal of Life" series includes entries discussing the "culture of" these entities, and one of these entities (\*) "in History". Another of them named for Broadacre was described as "Disappearing" in a book by Frank Lloyd Wright. The "Death and Life" of the "Great American" example of these entities was discussed in the best-known work of Jane Jacobs. For 10 points, name these entities studied by urban planners, an example of which is Chicago.

ANSWER: cities [accept word forms of "city"; accept "town" or "urban areas" until "urban" is said] (The 1<sup>st</sup> two clues are from *The Culture of Cities* by Lewis Mumford and *Cities and the Wealth of Nations* by Jane Jacobs, respectively) <RH, Philosophy/SS>

11. In one scene in this novel, the narrator claims that the "greatest weight [he has] on [his] conscience" comes from when he breathed on a cocoon to get a butterfly to emerge and was horrified when it emerged

with crumpled wings and died in his palm. The narrator of this novel has a dream in which his friend's arm detaches and floats over to grip him with an icy grasp, presaging that friend's death from pneumonia. While reading Dante, the narrator of this novel sees the title character staring at him from behind a glass door, after which he announces his plans to travel to (\*) Crete. In this novel, the narrator works on his manuscript on the Buddha as the title character manages a lignite mine and seduces Madame Hortense with his cimbalom. For 10 points, name this novel by Nikos Kazantzakis.

ANSWER: Zorba the Greek <GG, European Literature>

12. It's not a disease, but in 2009 the EPA suggested that applying the fungicide pyraclostrobin to plants may help protect them from this condition. Under the METAR reporting system, this phenomenon is usually reported with the abbreviation GR. Thunderstorms which could produce this phenomenon are identified on radar with a three (\*) body scatter spike. Effective prevention of this phenomenon is the other major use of silver iodide. The occurrence of this phenomenon requires a sizeable updraft which lifts droplets into the high atmosphere, where they freeze. For 10 points, name this type of solid precipitation which falls to earth in the form of ice.

ANSWER: hail [or hailstones; prompt on "precipitation"] <VC, Other Science>

13. One poem by an author from this country describes men who "hope to find a Thais" but actually encounter "a Lucretia / when you've possessed her." That poem from this country asks, "Why be outraged at the guilt / that is of your own doing?" and criticizes "foolish men / who lay the guilt on women." Another poet from this country wrote *The Traps of Faith* about another poet from this country and wrote a poem that begins (\*) "willow of crystal, a poplar of water." That poet from this country wrote an essay collection that includes "The Sons of La Malinche" and "The Day of the Dead" and a poem whose 584 lines correspond to the Aztec calendar. For 10 points, name this country home to Sor Juana Inés de la Cruz and the author of "Sunstone" and *The Labyrinth of Solitude*, Octavio Paz.

ANSWER: Mexico <GG, World/Other Literature>

14. In an incident near the Rock of Gibraltar, this ship crept up so quietly next to the HMS *Maidstone* that the *Maidstone* delayed hailing properly while her guns were readied. The officers of a crew on this ship were known as "Preble's boys" after that incident. This ship was commissioned by John Adams as part of his effort to expand the navy, although he avoided using it during the (\*) Quasi War with France. The protective copper bolts on this ship were made by Paul Revere. This ship received its nickname after a cannonball from the HMS *Guerriere* bounced harmlessly off of its hull, resulting in it being called "Old Ironsides." For 10 points, name this U.S. navy ship, named for a founding document of the United States.

ANSWER: USS Constitution <JO, American History>

15. One of these places in China is distinguished by an architectural feature reminiscent of a lighthouse, and is named for Huaisheng. A bowl which had been allegedly transported to Britain was delivered to one of these places called the "Heart of Chechnya" in 2011. A dissenting one of these institutions was burnt to the ground after the return of a military expedition to (\*) Tabuk. After entering these places, preferably with the right foot first, visitors are generally expected to perform the ritual of wudu to cleanse themselves. Speakers at these locations stand at the minbar and address people who usually face the direction of the qibla. For 10 points, name these houses of worship that are presided over by an imam.

ANSWER: mosque <VC, Religion>

16. For a single species, this quantity is equal to the square root of absolute temperature over 4-pi times the charge density squared. The Saha equation only holds for substances with large values of this quantity. This quantity also provides the upper cut-off for the value of the impact parameter. When this value is less than the particle radius, Smoluchowski's formula for calculating the (\*) zeta potential is valid. For every value of this quantity, the amount of electric potential decreases by degree one-over-e. This value is cubed and multiplied by 4-pi times the electron number density in the dimensionless plasma parameter. For 10 points, name this quantity, the radius over which charged particles will shield electric fields, a characteristic length from plasma physics.  
ANSWER: Debye length [or Debye scale/parameter/number/radius or screening length] <RH, Physics>

17. A fragment of this substance was allegedly left in Hadstock Church by a medieval Viking in a myth which was debunked in 2001. Tribute to a god who was fond of this type of clothing included the "gladiator sacrifice," in which a victim armed with feathers had to fight fully armed warriors. William Wallace apparently made a belt for his sword out of this substance after the (\*) death of Hugh de Cressingham. The Aztec god Xipe Totec wears a suit made from this material, which was produced in Catholic tradition during the martyrdom of Saint Bartholomew. A particularly holy example of this material was punctured five times during the Crucifixion. For 10 points, name this material that is acquired when a human being is flayed alive.  
ANSWER: human skin [prompt on answers like "flesh" or "humans"] <VC, Myth>

18. This composer never finished a work set in Mexico, his dramatic opera called *The Indian Queen*. This composer succeeded his mentor as principal organist at the Westminster Abbey, and modeled one opera's final chorus, *With drooping wings*, on the final chorus of *Venus and Adonis* by that mentor, (\*) John Blow. This composer set incidental music to a play by Aphra Behn, *Abdelazer*, and Benjamin Britten used themes for that work for his work subtitled *Variations and Fugue on a Theme of* this composer. In one opera by this composer, one of the title characters sings a dying aria set over a ground bass that frequently uses half-step intervals in *When I am laid in earth*. For 10 points, name this composer of the opera *Dido and Aeneas*.  
ANSWER: Henry Purcell <AWD, Music>

19. In the webcomic *Saturday Morning Breakfast Cereal*, a man with glasses describes one of these events which may result in having to poop from your mouth and eat with your butt forever. Black Hat Guy from xkcd reacts to being told about this subject by asking the question, "in this scenario, how busy am I?" In the "hedonist's" version of this situation, performing a certain action will prevent the ability to see a "totally sick (\*) loop-da-loop." This thought experiment, which was originally proposed by Philippa Foot, is often answered on the internet with the suggestion of "multi-track drifting!" For 10 points, name this frequently-memed ethical dilemma in which a moving vehicle can be diverted to run over a smaller number of people.  
ANSWER: the trolley problem [or obvious equivalents describing specific memetic variations, or answers such as pulling the lever in the trolley problem] <VC, Other>

20. Due to allegations of conspiracy, this ruler sent Herod Antipas into exile in Gaul. This man's successor executed Cassius Chaerea who had successfully assassinated this man. This man completed his father's project by officially dedicating the Temple of Divus Augustus. This non-Persian monarch once declared war on the ocean and had his soldiers take (\*) seashells as plunder. Out of spite to the astrologer Thrasyllus, this ruler built a temporary bridge across the Bay of Baiae and rode across it. Scandalous rumors insist that this ruler was carrying on an affair with his sister, Agrippina the Younger, and that he wanted to name his horse Incitatus as a consul. For 10 points, name this cruel and possibly insane Roman emperor whose nickname meant "little boots."  
ANSWER: Caligula [or Gaius Julius Caesar Augustus Germanicus] <VC, Misc/Other History>

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**Finals 1: Bonuses**

1. Cylindrical temples were built to a god of this phenomenon in pre-Columbian Mesoamerica named Ehecatl. For 10 points each:

[10] Name this phenomenon which was guided in Greek tradition by the god Aeolus.

ANSWER: wind

[10] The wind god Ehecatl was an aspect of this Aztec god, who was depicted as a feathered serpent and who abandoned the world by floating away on a raft of snakes.

ANSWER: Quetzalcoatl

[10] Orithyia, an Athenian noblewoman, was kidnapped by the snake-footed god of the wind which blows from this cardinal direction.

ANSWER: north <VC, Myth>

2. A Chinese project is seeking to bypass this waterway through a nearby route across Nicaragua. For 10 points each:

[10] Name this waterway which the United States relinquished control over due to an agreement made by Jimmy Carter.

ANSWER: Panama Canal

[10] A unanimous Senate resolution affirmed that people born in the Panama Canal Zone were natural-born American citizens, which was a relief to this Arizona senator and 2008 presidential candidate.

ANSWER: John McCain [or John Sidney McCain III]

[10] This army doctor from Alabama who built on the earlier discovery of Walter Reed was vital to the construction of the Canal due to his work on eradicating mosquitoes which carried infectious disease.

ANSWER: William Crawford Gorgas <VC, World History>

3. The DEAD box proteins Vasa and eIF2 belong to a class of proteins responsible for beginning this process. For 10 points each,

[10] Name this process whose “cap-dependent” form involves eukaryotic initiation factors recruiting the 43S PIC complex. IRES trans-acting factors mediate the “cap-independent” version of this process.

ANSWER: initiating translation [prompt on “initiation” with “initiating what?”, also accept “forming the ribosome”]

[10] Following initiation, translation begins properly when the newly-formed ribosome recognizes of the A-U-G start codon, which encodes this sulfur-containing, non-polar amino acid.

ANSWER: methionine

[10] This methionine derivative plays a key role in initiating protein synthesis in prokaryotes. Since it is not recognized by EF-Tu, the distinct tRNA for this methionine derivative is delivered directly to the ribosome P-site.

ANSWER: fMet [or N-Formylmethionine] <RH, Biology>

4. This piece opens with octave G triplets, although it is often transposed down to F or E minor. For 10 points,

[10] Name this art song, based on a poem, for solo voice and piano. The singer’s last words are “*war tot*” [“TOTE”] before the piano plays a perfect authentic cadence.

ANSWER: *Der* Erkönig [“*durr EARL-ker-nig*”, accept *The* Elf-King]

[10] *Der Erkönig* was written by this German composer, who composed other lied [“LEED”] like *Winterreise* [“*VIN-ter-ice-uh*”], as well as the *Trout Quintet* and an unfinished symphony.

ANSWER: Franz Schubert

[10] Just as the piano depicts a horse’s hoof beats in *Erkönig*, in this other Schubert work, the piano’s rising and falling sixteenth-notes emulate the title machine, which is being used by the Faustian [“FOW-stee-in”] character in the work’s title.

ANSWER: Gretchen am Spinnrade [accept Gretchen at the Spinning-Wheel] <AWD, Classical>

5. This story ends with the line, “When the doctors came they said she had died of heart disease--of the joy that kills.” For 10 points each:

[10] Name this story in which Louise imagines the “spring days” and “summer days” of the future after learning that her husband had been killed in a railroad disaster, only for him to appear at her door unannounced.

ANSWER: “The Story of an Hour”

[10] “The Story of an Hour” was written by this woman who described Edna Pontellier walking into the ocean to commit suicide at the end of her novel *The Awakening*.

ANSWER: Kate Chopin [or Katherine O’Flaherty]

[10] At the end of “The Storm,” Alce goes home and performs this action after having sex with Calixta. Part IV of the story consists of Alce performing this action, while Part V describes his wife being “charmed” by it.

ANSWER: writing a letter to her <GG, American Literature>

6. Answer the following about King Philip’s War. For 10 points each:

[10] This colonial woman was captured by Native Americans during King Philip’s War. Her captivity narrative includes the death of her six-year-old daughter, Sarah.

ANSWER: Mary Rowlandson [Mary White Rowlandson]

[10] Josiah Winslow was the governor of this colony during King Philip’s War. This colony’s pilgrims were aided by Philip’s father Massasoit and the native Squanto.

ANSWER: Plymouth [or the Plymouth Colony; or New Plymouth; do NOT accept “Massachusetts Bay Colony,” as they were separately administered until the 1690s]

[10] King Philip’s War began after the body of this Praying Indian and translator for Philip was discovered in the frozen Assawompset Pond.

ANSWER: John Sassamon [or Wussausmon] <JO, American History>

7. Answer some questions about a certain non-American sports team and its colorful history. For 10 points each:

[10] This Glasgow-based football club and member of the “Old Firm” has an ancient rivalry with the Rangers. Fans of this team commonly refer to themselves as the “Bhoys,” spelled with an h, and their home field is nicknamed “Paradise.”

ANSWER: Celtic [“SELL-tick”] Football Club [or Celtic F.C.]

[10] Because Celtic’s fans historically have come from Irish immigrant populations in Glasgow, Celtic plays in uniforms of white and this color.

ANSWER: green

[10] Description acceptable. Celtic’s rival, the Rangers, experienced one of these calamities at their Ibrox Stadium in 1971. Other notable examples of these events include the Hillsborough Disaster, a 1979 concert by the Who, and a lot of accidents during the hajj.

ANSWER: crowd crush [or obvious equivalents involving human crushes, stampedes, or people getting trampled to death by a crowd] <VC, Other>

8. This thinker’s theory of “sonant coefficients” would be proven more than fifty years after its proposal due to the discovery of various Hittite texts. For 10 points each,

[10] Name this Swiss linguist, the father of semiotics and the author of the “Course in General Linguistics”.

ANSWER: Ferdinand de Saussure

[10] Saussure introduced two terms to distinguish between the abstract, systematic conventions of language and the everyday usage of speech. Name either of those two terms.

ANSWER langue and parole [accept either]

[10] Saussure’s theory of “sonant coefficients” as well as his theory of laryngeals were based on the re-construction of this early language. Grimm’s law also describes the inheritance of stop consonants *from* this early language.

ANSWER: Proto-Indo-European [or PIE] <RH, Social Science>

9. A poem by this author begins by describing how “burnished gold gleams in vain in the sun to compete with your hair” and ends by listing out “earth, smoke, dust, shadow, nothing.” For 10 points each:

[10] Name this 16th century Spanish poet who fought in many campaigns under Charles V. He pioneered the use of the *estancia*, a stanza that alternates between eleven and seven syllable lines.

ANSWER: **Garcilaso** de la Vega

[10] Garcilaso influenced many poets working in this period, which saw the contrasting schools of *culteranismo* and *conceptismo* led by Luis de Gongora and Francisco de Quevedo, respectively.

ANSWER: **Spanish Golden Age** [or **Siglo de oro**, accept **Baroque** period]

[10] The aforementioned Garcilaso poem was written in the Petrarchan version of this form, which consists of an octave and a sestet. Shakespeare also names a version of this kind of poem.

ANSWER: **sonnet** [accept Petrarchan **sonnet** or Shakespearean **sonnet**] <GG, European Literature>

10. Examples of these ligands include  $\text{Ni}^{2+}$ ,  $\text{Mn}^{2+}$ , and  $\text{Br}^-$ . For 10 points each,

[10] Name these ligands that give rise to small differences in energies of the  $t_{2g}$  and  $e_g$  orbitals and result in upper orbitals filling with single electrons before any pairing occurs.

ANSWER: **weak-field** ligands [prompt on “weak” ligands]

[10] According to crystal field theory, weak-field ligands result in orbitals filling in accordance with the 3 rules named for this German scientist, one of which states that for a given configuration, the one with maximum multiplicity has the lowest energy.

ANSWER: Friedrich **Hund** [or **Hund**’s rule(s)]

[10] Weak-field ligands and strong-field ligands differ in that they produce complexes with “high” and “low” values for this quantity, respectively. This quantity is the intrinsic form of angular momentum carried by particles.

ANSWER: **spin** <RH, Chemistry>

11. The logo for car brand Maserati is based on the trident held by the central figure of one fountain by this artist, which also interestingly features some lactating nereids on its four corners. For 10 points each,

[10] Name this sculptor of the *Fountain of Neptune*. Another work by this sculptor on display at the Loggia dei Lanzi depicts its central scene with three writhing, twisted figures arranged vertically.

ANSWER: **Giambologna** [or **Giovanni da Bologna** or Jean **Boulogne**]

[10] This other artist from the same movement created a now-lost depiction of Mars for the Palace of Fontainebleau. This artist also depicted a reclining nymph in a bronze work for the same patron, who also commissioned this artist to create a golden salt cellar.

ANSWER: Benvenuto **Cellini**

[10] Benvenuto Cellini and Giambologna were both associated with this art movement, which followed the High Renaissance and preceded the Baroque. This style is characterized by exaggerated qualities and elongated figures.

ANSWER: **Mannerism** [or word forms like “the **Mannerist** style”] <RH, Other Art>

12. In Python, an object of this class can be called implicitly by using single or double quotation marks. For 10 points each:

[10] Name this common variable type used to store text information, which can be searched using regular expressions.

ANSWER: **strings**

[10] In Python and Java, using a plus sign on strings performs this operation, which joins strings end-to-end.

ANSWER: **concatenation**

[10] This data type in Python is defined using curly braces and consists of key/value pairs. Using many different common words to try and crack a password with brute force is this type of attack.

ANSWER: **dictionary** <AWD, Other Science>

13. Answer the following about the creeping barrage. For 10 points each:

[10] Henry Horne first deployed the creeping barrage tactic at this battle, which was where tanks were deployed in warfare for the first time. Douglas Haig's tactics earned him the nickname "the Butcher of [this battle]."

ANSWER: the Battle of the **Somme** [or the **Somme** Offensive]

[10] The creeping barrage was used to much better effect at this battle. According to a saying about this battle, "We went up...as Albertans and Nova Scotians. We came down as Canadians."

ANSWER: Battle of **Vimy** Ridge [prompt on the Battle of **Arras** or the Second Battle of **Arras**]

[10] The battles of Vimy Ridge and the Somme occurred during this war, which began after Archduke Franz Ferdinand was assassinated by the Black Hand in Sarajevo.

ANSWER: **World** War **I** [or the **First World** War; or **WWI**; or The **Great** War] <JO, European History>

14. Mark Twain published a poem beginning with the line "mine eyes have seen the orgy of the launching of the Sword" as part of his criticism of American military involvement in this country. For 10 points each:

[10] Identify this modern-day country where an early constitution was drafted at Malolos, shortly after George Dewey arrived here with his fleet.

ANSWER: **Philippines** [or Republic of the **Philippines**]

[10] If this man had not collaborated with the Japanese during World War II, he might have been better remembered as the first president of the Philippines and a leader of the conflict against Spain and later the United States before he was captured by Frederick Funston.

ANSWER: Emilio **Aguinaldo**

[10] Aguinaldo was a member of this revolutionary society which venerated José Rizal. Amusingly, a commonly used abbreviation of their name is "KKK," although that is just a coincidence.

ANSWER: **Katipunan** [or Kataastaasan Kagalanggalang **Katipunan** ng mga Anak ng Bayan] <VC, Misc./Other History>

15. This country's most recent presidential election boiled over into constitutional crisis when its former president, Yahya Jammeh, refused to concede to his opponent. For 10 points each:

[10] Name this African country which, after obtaining independence from the United Kingdom, was mostly led by Dawda Jawara.

ANSWER: The **Gambia** [or Republic of The **Gambia**]

[10] This current President of The Gambia took his oath of office for the first time in a nearby Gambian embassy, having had to flee the country. Since officially assuming the presidency, this man has begun the process of rejoining the Commonwealth of Nations.

ANSWER: Adama **Barrow**

[10] Civil unrest in The Gambia is often put down by military force from this country which is The Gambia's only neighbor. This country with capital at Dakar completely surrounds The Gambia, except in the ocean.

ANSWER; **Senegal** [or the Republic of **Senegal**; or République du **Sénégal**] <VC, Geography/Current Events>

16. The first initiates to this group were called to enter a tent by a man who then exited the tent with a sword covered in blood. For 10 points each:

[10] Name this body of people who are blessed through the Amrit Sanchar and are charged to observe the Five Ks.

ANSWER: **khalsa**

[10] The khalsa comprises all members of this religion, who were historically led by gurus and whose holy text is based on the Adi Granth.

ANSWER: **Sikhism** [or **Sikhi**]

[10] In the last several decades, most observant Sikhs have begun using a calendar named after this first guru who wrote the Mul Mantar and founded Sikhism.

ANSWER: Guru **Nanak** <VC, Religion>



17. A term for this phenomenon appears in the denominator of the Weber number. For 10 points each,  
[10] Name this phenomenon which at constant temperature and pressure equals the Gibbs free energy per unit area. This phenomenon is lowered by surfactants, and it causes the formation of a meniscus for liquids in a tube.

ANSWER: **surface tension**

[10] The inverse, linear relationship between surface tension and temperature is described by this rule, named for a Hungarian physicist. It also describes surface tension's inverse relationship with volume to the two-thirds power.

ANSWER: **Eotvos** rule [or Eotvos' effect]

[10] One form of this process occurs at the boundary of two fluids due to gradient of surface tension, in an effect named for Benard and Marangoni. This mass transfer process is most efficient for high Nusselt numbers.

ANSWER: Marangoni **convection** [prompt on **Benard-Marangoni** effect; accept thermo-capillary **convection** <RH, Physics>

18. A man prophesies that this character should be kept away from trees and water, which manifests when this character's father drowns while trying to save him. For 10 points each:

[10] Name this title character of a novel in which he marries into the Tulsi family through his wife Shama, who is the daughter of one of his clients while he works as a sign-writer.

ANSWER: **Mohun Biswas** [accept either, accept Mr. **Biswas**]

[10] *A House for Mr. Biswas* was written by this Trinidadian author who wrote about Mr. Popo, B. Wordsworth, and other residents of the title place in *Miguel Street*.

ANSWER: Vidiadhar Surajprasad **Naipaul**

[10] In Naipaul's novel *A Bend in the River*, the President is given this two word nickname. Raymond works as an advisor to this figure, who arrives in town toward the end of the novel to supervise an execution.

ANSWER: **Big Man** <GG, World/Other Literature>

19. Though none of its action takes place at the title estate, this novel's name symbolizes the danger its protagonist encounters. For 10 points each:

[10] Name this 2009 Booker Prize winning novel about the rise of Thomas Cromwell whose sequel, *Bring Up the Bodies*, also won the prize in 2012.

ANSWER: **Wolf Hall**

[10] *Wolf Hall* and *Bring Up the Bodies* were written by this author of historical fiction.

ANSWER: Hilary Mary **Mantel** [or Hilary Mary **Thompson**]

[10] *Wolf Hall* ends with the death of this figure who is sympathetically portrayed in *A Man for All Seasons*. This author wrote *Utopia*.

ANSWER: Thomas **More** <CH, British Lit>

20. Name some saints in Parmigianino paintings, for 10 points each:

[10] *Madonna of the Long Neck* depicts the title woman with her feet resting on pillows, and this saint as a tiny statue holding a scroll in the bottom right.

ANSWER: St. **Jerome**

[10] *The Vision of St. Jerome* features Jerome sleeping in the background, while this kneeling figure points at him with a leopard skin draped over his thigh.

ANSWER: **John** the **Baptist** [prompt on "**John**"]

[10] One of Parmigianino's earlier works features the "Mystic Marriage" of this woman. Large, circular glass windows called "rose windows" are also sometimes named for her.

ANSWER: [The Mystic Marriage of Saint] **Catherine** <AWD, Painting>