**ACF Regionals 2018**

**Edited by Auroni Gupta, Will Alston, Kenji Shimizu, Will Holub-Moorman, and Stephen Eltinge**

**Tiebreakers and Replacements**

Tossups

CAN BE READ TO ANYONE

1. Two rivers named for nearby deposits of this substance provide water to the former trade hub of Hotan. Fish hooks and other small trinkets are made from a type of this substance called *pounamu* on the South Island of New Zealand. Nader Shah attempted to steal a slab of this substance that protects the tomb of Timur the Lame in Samarkand. In the star attraction of the National Palace Museum, two depictions of insects are hidden within a sculpture of a cabbage made of this substance. The summit of Mount Tai is partly named after this substance, which was fashioned into tiles and wired together to create burial suits for many Han Dynasty royals. The twelve animals of a zodiac were summoned by a legendary emperor named after this substance who presides over the heavens. For 10 points, name this green stone important to Chinese culture.

ANSWER: **jade** [or **jadeite**; accept **nephrite**; accept **greenstone** until it is read]

<Other Academic>

CAN BE READ TO ANYONE

2. *Description acceptable*. The genetic drivers of this process were largely unknown until the discovery in 2000 of the MADS-box JOINTLESS gene. In both cladoptosis and the opposite phenomenon, marcescence, a “layer” named for this process forms and encloses a vein. The 8-prime hydroxylated derivative of a compound named for this process spontaneously interconverts to phaseic acid. A “zone” consisting of thin-walled parenchyma cells and named for this process is found in many species in the area connecting the petiole to the stem. A hormone named for this process alters the osmotic potential of guard cells, causing stomatal closure, and is synthesized in green fruits and terminal buds at the beginning of winter to trigger dormancy. For 10 points, an “acid” plant hormone triggers what seasonal plant process known as abscission?

ANSWER: **shed**ding **leaves** [or **abscission** until it is read; accept fruit, flowers, or seed in place of “leaves” in the main answer; accept clear-knowledge synonyms in place of “shedding,” like **leaves fall**ing]

<Biology>

CAN BE READ TO ANYONE

3. This author mentioned “an unimportant clerk” who writes “I DO NOT LIKE MY WORK” on a “pink official form” in a poem that ends with “vast / herds of reindeer moving across / Miles and miles of golden moss, / Silently and very fast.” A poem by this author cuts between a classical scene of “White flower-garlanded heifers, / Libation and sacrifice,” and a stark modern setting of “barbed wire enclosing an arbitrary spot / Where bored officials lounged (one cracked a joke).” This author of “The Fall of Rome” described how “when he laughed, respectable senators burst with laughter, / And when he cried the little children died in the streets” in his “Epitaph of a Tyrant.” He wrote that “Exiled Thucydides knew / All that a speech can say / About Democracy” in a poem that describes powerless “dense commuters” repeating meaningless vows, and proclaims that “We must love one another or die.” For 10 points, name this English poet of “September 1, 1939.”

ANSWER: W. H. **Auden** [or Wystan Hugh **Auden**]

<Non-Epic Poetry>

CAN BE READ TO ANYONE

4. Lawrence Stone’s book about the “Road to” this action profiles effects of an 1857 law governing it, which took cases involving it away from “advocates” and “proctors.” Many laws on procedures for this action were revised after a study by Leonor Weitzman about its “Revolution.” Octavian’s second performance of this action took place in 38 BC on the same day as his daughter Julia was born. Napoleon held a ceremony after reluctantly performing this action in 1809 to the benefit of Marie Louise of Austria. Because she had performed this action twice, Wallis Simpson was considered unsuitable for marriage to Edward VIII. Since the right to do this [emphasize] *did not exist*, an English king had to petition Clement VII for church assistance, but the pope refused. For 10 points, name this action that Henry VIII could not perform due to religious law, forcing him to seek annulment with Catherine of Aragon.

ANSWER: **divorce** [do not accept or prompt on “marriage”]

<Historio/Archaeo>

DO NOT READ TO BERKELEY A, MIT B, OR SOUTHAMPTON

5. This property exhibits singularities known as C-points that are classified as stars, lemons, or monstars. Michael Berry used the hairy ball theorem to show that this property must completely vanish at four points, one of which was discovered by François Arago. The character of this property determines whether the Imbert–Fedorov or Goos–Hanchen effect will give rise to a lateral shift during total internal reflection. A wire grid array is commonly used to impart this property. Three numbers *Q*, *U*, and *V* that govern this property form the three axes of a Poincaré (“pwann-kah-RAY”) sphere; those are three of the four Stokes parameters that describe it. A light ray reflected at Brewster’s angle will have this property in a direction parallel to the reflecting surface. For 10 points, name this property of light in which the direction of electric field oscillations is constrained.

ANSWER: **polarization** [specific types such as linear **polarization** or circular **polarization**]

<Physics>

DO NOT READ TO FLORIDA, UCSD, OR JOHNS HOPKINS D

6. One essay uses a concept developed by this thinker to describe how the cinema encourages “active scopophilia.” The radio host Robert Georgin’s set of seven interviews with this thinker were later released as this man’s *Radiophonie*. This thinker used the example of the anthropomorphic skull in Holbein’s *The Ambassadors* to analyze the loss of autonomy associated with the realization that one is able to be viewed through a certain type of “gaze.” He analyzed how people coordinate their desires through the use of an *objet petit a* (“ob-JAY puh-TEET AH”), and also formulated process in which an infant creates a pre-language concept of the self by simultaneously recognizing a reflection as both itself and not-itself. For 10 points, name this French psychoanalyzed who posited the existence of the “mirror stage” in works like his *Ecrits*.

ANSWER: Jacques **Lacan**

<Philosophy>

DO NOT READ TO MICHIGAN A, BERKELEY B, OR MIT A

7. An uprising in this country is celebrated on January 4 as Colonial Martyrs Repression Day. A politician in this country was described as “one of the few authentic heroes of our time” by Jeane Kirkpatrick, who introduced that man in a speech he gave to the American Enterprise Institute. Its independence movement began after a boycott of the Cotonang Company’s cotton fields led to the Baixa de Cassanje (“BYE-shuh deh kah-SAN-jee”) revolt. This country’s civil war included the second-largest battle in African history, the Battle of Cuito Cuanavale, in which South Africa and Cuba intervened on opposite sides. Paul Manafort served as a US lobbyist for the leader of this country’s UNITA rebel group, which opposed the MPLA under Jonas Savimbi. For 10 points, name this former Portuguese colony with capital Luanda.

ANSWER: (Republic of) **Angola** [or República de **Angola** or Republika ya **Ngola**]

<Other History>

DO NOT READ TO DELAWARE A, CAMBRIDGE A, OR KENTUCKY A

8. Large numbers of a variety of these objects are made annually in Maharashtra for a festival near summer’s end, during which they are displayed in large tents called *pandals* to protect them from rain. That type of these objects is then carried through the streets in grand processions and left to disintegrate in rivers and seas at the end of Ganesh Chaturthi. These objects are often anointed with red *kumkum* powder. Prana Pratistha is the ceremony in which the large one of these objects found in a *mandir* is consecrated. An example of these objects showing the *nataraja* scene is found in most Shaivite sites of worship. Trays of fruit and offerings are placed in front of one of these things in the typical setup for a *puja*. For 10 points, identify these physical manifestations of Hindu divinities.

ANSWER: Hindu **idols** [accept **murti**s; accept “**statues** of **god**s” or similar answers until “gods”; prompt on statues]

<Religion>

DO NOT READ TO CHICAGO C, WRIGHT STATE, OR ILLINOIS B

9. An injunctive message can block a negative outcome of this process through the “boomerang effect.” Richard Petty and John Cacioppo identified a “peripheral” form of this process that depends more on heuristics than logic in their “elaboration likelihood model.” Frank Capra’s film *Why We Fight* was used to analyze the effects of forgetting and dissociation on a delayed form of this process in Carl Hovland’s experiment on the “sleeper effect.” Robert Cialdini posited six principles of this process, whose success depends on source, message, and recipient factors. Revealing hidden costs after agreement, and starting with a small request before a larger request are the “lowball” and “foot-in-the-door” techniques for this process. For 10 points, name this process of influencing another person’s attitudes.

ANSWER: **persuasion** [accept **attitude influence** or **attitude change** and equivalent descriptions until read]

<Social Science>

DO NOT READ TO JOHNS HOPKINS A, OXFORD A, OR UNC LAW

10. A symphony by this composer opens with four quiet notes on the glockenspiel (“GLOCK-en-shpeel”). Another symphony by this composer opens with the same A played 26 times. The violas play continuously in the opening of his two-movement Symphony No. 5, which, like his Symphony No. 6, begins in *tempo giusto* (“JOO-stoh”). He included “Hindu,” “Chinese,” and “Negro” dances in his incidental music to *Aladdin*. Tempi denoted *collerico*, *flematico*, *sanguineo*, and *malincolico* reflect the title of this composer’s Symphony No. 2, called “The Four Temperaments.” The last movement of this composer’s Fourth Symphony calls for two timpani to be placed on opposite ends of the stage and “duel.” For 10 points, name this composer of the “Inextinguishable” Symphony who hailed from Denmark.

ANSWER: Carl **Nielsen**

<Music>

DO NOT READ TO UCSD A, UF A, OR JHU D

11. The lines “Rude, and ungrateful, though my country be,” in Book 5 of this work alludes to Scipio Africanus as a reference to its author’s multiple exiles. The main characters of this work encounter a figure whose “black lips” part to reveal “blue rows” of “gnashing teeth.” Its central character is brought to a mountaintop and listens to a set of speeches by the Nereid Thetis after arriving at the Isle of Joy. This work concludes with an apostrophe to the king of a nation whose history is recounted to the King of Melinda in the third, fourth, and fifth books of this work. A character in this work who used to rule over the Indian Ocean first appears as a storm and guards the Cape of Good Hope. Bacchus and Venus feud over a group of sailors in this work who are impeded by the monster Adamastor. For 10 points, name this Portuguese epic by Luis de Camões (“ka-MOISH”) chronicling the voyages of Vasco da Gama.

ANSWER: *The* ***Lusiads*** [or *Os* ***Lusiad****as*]

<Miscellaneous Lit>

Bonuses

CAN BE READ TO ANYONE

1. This character dons a green dress and walks into the yard, yelling “Chickens! Chickens! Look at me!” For 10 points each:

[10] Name this sister of Martirio and Angustias, who hangs herself at the end of the play in which she appears after mistakenly assuming that her mother has killed her lover, Pepe el Romano.

ANSWER: **Adela** Alba [prompt on Alba]

[10] Adela appears in *The House of Bernarda Alba*, a work by this Spanish playwright and member of the Generation of ’27.

ANSWER: Federico Garcia **Lorca**

[10] This other 20th-century Spanish dramatist co-founded the Panic Movement collective in 1962 with Alejandro Jodorowsky and Roland Topor after moving to France, where he published violent plays such as *The Architect and the Emperor of Assyria* and *Automobile Graveyard*.

ANSWER: Fernando **Arrabal**

<Drama>

CAN BE READ TO ANYONE

2. The Oregonator model was developed to make some sense of the kinetics of one of these reactions that requires a mixture of dilute acids and a bromate oxidizer. For 10 points each:

[10] The Belousov–Zhabotinsky reaction belongs to what class of reactions, in which the concentrations of the involved molecules change in a periodic manner?

ANSWER: **clock** reactions [or chemical **oscillator**s; or chemical **clock**; prompt on autocatalytic reactions]

[10] Clock reactions exemplify a branch of thermodynamics named after [emphasize] *not* being in this state, in which there is a balance of reactants and products and no net flow of heat or matter.

ANSWER: **equilibrium**

[10] A droplet of liquid gallium or mercury is spotted onto a watch glass containing sulfuric acid and potassium dichromate and then carefully touched with an iron nail, causing the blob to oscillate, in a reaction given this evocative nickname.

ANSWER: mercury **beating heart**

<Chemistry>

CAN BE READ TO ANYONE

3. This philosopher claimed that the ethic of “loyalty to loyalty” exists in so-called “genuine communities” that are real-life manifestations of the ideal “Beloved Community.” For 10 points each:

[10] Name this American idealist philosopher, who posited the existence of an “Absolute Knower” in books like *The Problem of Christianity*.

ANSWER: Josiah **Royce**

[10] Royce’s ideas influenced this later American thinker, who argued that nonviolence would help to create the “beloved community” in his books *Why We Can’t Wait* and *Where Do We Go From Here: Chaos or Community?*

ANSWER: Martin Luther **King**, Jr. [accept **MLK**]

[10] King also argued that the “beloved community” centered on the existence of *agape*, a spiritual form of this practice. This practice or feeling is often divided into the categories of *agape*, *philia*, and *eros*.

ANSWER: **love** [accept word forms such as **loving**]

<Philosophy>

CAN BE READ TO ANYONE

4. A common myth holds that this symphony was the first to employ the trombone and the piccolo. For 10 points each:

[10] Name this C minor symphony that opens with an iconic “short-short-short-LONG” motif, often referred to as “fate knocking at the door.”

ANSWER: Ludwig van **Beethoven**’s Symphony No. **5** in C minor [accept equivalents such as **Beethoven’s Fifth** Symphony]

[10] In the first movement of Beethoven’s Fifth Symphony, this instrument introduces the second theme of the exposition by playing a “short-short-short-LONG” theme in E-flat major, as opposed to the tonic of C minor.

ANSWER: French **horn** [or natural **horn**; do not accept or prompt on “English horn”]

[10] This composer generally modeled himself on Mozart rather than Beethoven, but his Symphony No. 4 opens with a so-called “fate” motif. His Symphony No. 1 is called “Winter Dreams.”

ANSWER: Pyotr Ilyich **Tchaikovsky**

<Music>

DO NOT READ TO NCF A, YALE A, OR UT DALLAS A

5. Shmuel Eisenstadt argued that multiple forms of this concept have developed across various civilizations. For 10 points each:

[10] Name this concept. Arjun Appadurai discussed the “cultural dimensions of globalization” in a book titled for concept “at large.”

ANSWER: **modernity** [accept “multiple **modernities**” or ***Modernity*** *At Large*]

[10] This Polish sociologist’s idea of “liquid modernity” characterizes our era as demonstrating increased individual uncertainty and the privatization of ambivalence.

ANSWER: Zygmunt **Bauman**

[10] In another work, Bauman connected the ideology of modernity to this event, analyzing the scientific rationale for genocide present in statements such as Joseph Goebbels’s claim that there is “no hope of leading the Jews back into the fold of civilized humanity.”

ANSWER: the **Holocaust** [or the **Shoah**; accept *Modernity and the* ***Holocaust***]

<Social Science>

CAN BE READ TO ANYONE

6. This character came to represent an animal sacred to auguries performed under the auspices of the priests of Mars and even a minor god who presided over fertilizer and manure. For 10 points each:

[10] Name this handsome first king of Latium whom Circe transformed into a woodpecker for scorning her love.

ANSWER: **Picus**

[10] This Roman goddess of fruit is said to have scorned the love of Picus, but in some cases she’s said to have consummated her love with him before Picus became a woodpecker. In another story, Vertumnus tricks her.

ANSWER: **Pomona**

[10] Vergil records that Picus was a son of this Roman deity and father of Jupiter. A planet is named for him.

ANSWER: **Saturn** [or **Saturnus**]

<Mythology>

DO NOT READ TO WUSTL, WATERLOO, OR YALE B

7. In one of this book’s stories, Baco Rangel goes to an American restaurant in order to meet obese white women. For 10 points each:

[10] Name this 1995 collection of short stories featuring the recurring character of the businessman Leonardo Barroso, that includes the aforementioned story “Spoils.”

ANSWER: *The* ***Crystal Frontier*** [or *The* ***Glass Border***; accept *La* ***frontera de cristal***]

[10] *The Crystal Frontier* was written by this Mexican author of *Terra Nostra* and *The Death of Artemio Cruz*.

ANSWER: Carlos **Fuentes**

[10] In an early short story by Fuentes, Filberto drowns after buying one of these reclining Mesoamerican statues, which comes to life and stalks him.

ANSWER: a **chacmool**

<Short Fiction>

CAN BE READ TO ANYONE

8. William Fraser aggressively recruited these troops into the British Army following an 1814 to 1816 war in which they fiercely fought British troops. For 10 points each:

[10] Name these soldiers. Though from Nepal, the twenty outstanding regiments of these soldiers were split between the Indian and British armies after the partition of India.

ANSWER: **Gurkha**s

[10] This type of traditional Nepalese knife is a signature weapon of the Gurkhas. A widely-spread myth claims that the characteristic notch below its outward-curving blade was used to catch blood.

ANSWER: **kukri** [or **khukuri**]

[10] This Asian nation’s police force contains an elite force of Gurkhas as specialized guards. Other members of this city-state’s police enforce the harsh laws that lead it to be called “Disneyland with a Death Penalty.”

ANSWER: (Republic of) **Singapore**

<Other History>

DO NOT READ TO MARYLAND A, MCGILL B, OR ILLINOIS A

9. This movement’s manifesto claims that museums and cemeteries are alike in the “sinister jostling of bodies that do not know each other.” For 10 points each:

[10] Name this Italian art movement inspired by violence and modern technology. Its artworks often superimposed varying positions of the same subject to depict motion, as in Giacomo Balla’s *Dynamism of a Dog on a Leash*.

ANSWER: **Futurism** [or **Futurismo**]

[10] Umberto Boccioni, a leading Futurist artist, was inspired by the philosophy of Henri Bergson to create a portrait of this kind of person. Arshile Gorky’s portrait of this kind of person notably has unfinished hands.

ANSWER: the artist’s **mother** [accept equivalents] (The portrait is *Materia*.)

[10] Boccioni also painted the “dynamism” of a person doing this activity that uses brighter colors than the similar *Dynamism of a Soccer Player*. Russian Futurist Natalia Goncharova painted a clearer representation of a person engaging in this activity that layers the text of storefront signs over him.

ANSWER: **cycling** [or **cyclist**; accept equivalents such as **riding a bicycle**; accept ***Dynamism of a Cyclist***]

<Painting/Sculpture>

DO NOT READ TO CHICAGO A, WASHINGTON A, OR NYU A

10. During this event, tens of thousands of seated schoolchildren create various images with colored cards as thousands of gymnasts perform floor routines. For 10 points each:

[10] Name this heavily choreographed set of “mass games” held every summer in the world’s largest stadium, the Rungnado May Day Stadium. It is named after a folk song about two separated lovers.

ANSWER: **Arirang** Festival

[10] This country holds the yearly Arirang Festival, which sometimes includes purple and red flowers named after its rulers Kim Il-sung and Kim Jong-il.

ANSWER: **North Korea** [or **D**emocratic **P**eople’s **R**epublic of **K**orea; or **Choson** Minjujuui Inmin Konghwaguk; prompt on Korea; do not accept “South Korea” or “Republic of Korea”]

[10] While on a trip to this country’s Bogor Botanical Gardens, Kim Il-sung discovered the purple orchid now named after him. This country originated the short-lived GANEFO competition after being banned by the IOC for barring Taiwan and Israel from the 1962 Asian Games.

ANSWER: **Indonesia** [or Republic of **Indonesia**]

<Geography>

CAN BE READ TO ANYONE

11. The earliest modern-day beauty contest was held in this town in 1888. For 10 points each:

[10] Name this town near Liège that lent its name to a common English word. It hosted a conference that invited German delegates to discuss reparations for World War I.

ANSWER: **Spa**, Belgium

[10] This other spa town was established as the seat of government of a regime headed by Philippe Pétain that collaborated with the Nazis during World War II.

ANSWER: **Vichy** [or **Vichei**]

[10] This head of state fled to the spa town of Baden-Baden in response to growing leftist protests in May 1968. Upon his return, he announced an election in which his party, the UDR, gained its country’s first-ever absolute majority in Parliament.

ANSWER: Charles **de Gaulle** [or Charles André Joseph Marie **de Gaulle**]

<European History post-600>

DO NOT READ TO NORTHWESTERN A, MARYLAND B, OR OKLAHOMA

12. One measure of this property is the ratio of the largest and smallest eigenvalues of the local Jacobian matrix. For 10 points each:

[10] Name this property, which makes differential equations very difficult to solve numerically since their solutions oscillate wildly. As a result, very small step sizes are required to integrate equations with this property.

ANSWER: **stiff** differential equations [or **stiffness**]

[10] Stiffness is described by a matrix in this numerical technique, which solves a 3D boundary value problem by decomposing the system of PDEs into a mesh of small discrete units over which the functions are linear.

ANSWER: **finite element** analysis [or **finite element** method; or **FEA**; or **FEM**]

[10] That linearized approach is a generalization of the differential equation-solving method named for this mathematician. He’s also the namesake the base of the natural logarithm.

ANSWER: Leonhard **Euler**

<Other Science (Math)>

CAN BE READ TO ANYONE

13. After a user asked Wendy’s Twitter account if a car from this game could deliver their DoorDash order, Wendy’s tweeted back “WHAT A SAVE! WHAT A SAVE! WHAT A SAVE! Chat disabled for 3 seconds.” For 10 points each:

[10] Name this Psyonix-developed multiplayer video game. Its “Snow Day” game mode replaces the normal game mechanics with an ice rink and a hockey puck.

ANSWER: ***Rocket League***

[10] In November 2017, Rocket League was ported to this most-recent Nintendo console, whose joycons can be attached for portable play or detached for use in docked mode.

ANSWER: Nintendo **Switch**

[10] In March 2017, Rocket League added a game mode called “Dropshot,” based on tiles of this shape. A Terry Cavanagh-designed game in which the player attempts to avoid shrinking walls is titled *Super* this shape.

ANSWER: **hexagon**s [or **hexagon**al; accept *Super* ***Hexagon***]

<Trash>