



**ACADEMIC
COMPETITION
FEDERATION**

2023 ACF NATIONALS

Playoffs Round 3

Packet By

The Editors (3)

Editors

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TOSSUPS

1. At mǎn yuè (“mahn-y’weh”) celebrations, 30-day-old babies are gifted the feet of these animals, which have become a byword for unloyal men. A breed of this animal found around Tàì Hú (“ty-hoo”) produces high-grade bǎn yóu (“bahn yoh”). The rhyme “get your... tatt, shout out to your frat” helped gangsters popularize a cartoon one of these animals that is banned on Dōuyīn (“doh-in”). The dombegogì dish is made from the Jeju (“CHAY-joo”) Black variety of these animals, which were fed until the 1960s with a structure similar to the “horse bucket.” Because this animal snacked and napped during the Jade Emperor’s Great Race, it appears last in the zodiac. After insulting the Moon Goddess, a character is turned into one of these animals and is named for the eight Buddhist commandments, or *bā jiè* (“bah j’yeh”); that character is introduced after Sūn Wùkōng in *Journey to the West*. For 10 points, Hàn dynasty outhouses dumped into the sties of what farm animals?

ANSWER: **pigs** [or **swine**; or **hogs**; or **boars**; or **sows**; or **suids** or ***Sus domesticus***; or **zhū**; accept Shen **Zhū**; accept **Pigsie** or **Zhū Bājiè**; accept Peppa **Pig**; accept Jeju Black **pig** or Jeju heug **dwaeji**; accept Tàihú **pig**]

<Other Academic>

2. A “brotherhood” of Louisiana workers in this industry revolted against the Galloway brothers in the Grabow Riot. A less-famous Charles Goodyear developed this industry’s company town of Bogalusa. To prevent wartime strikes in this industry, Colonel Brice Disque created a massive company union nicknamed the “Four L.” A company in this industry lost a 1941 Supreme Court case that affirmed government regulation of employment standards, overturning *Hammer v. Dagenhart*. In this industry, “whistle punks” used a “jerk wire” to signal to “donkey punchers” operating steam-powered winches. A doctrine of sustained yield management in this industry was promoted by Gifford Pinchot (“PIN-cho”). To oppose conservation efforts in the 1990s, supporters of this industry hung effigies of the spotted owl. For 10 points, the Aroostook War was sparked by disputes in what industry with widespread mills in Northern Maine?

ANSWER: **logging** industry [or **timber** industry; or **lumber** industry; accept **lumberjacks**; accept *United States v. Darby Lumber Co.*; accept Loyal Legion of **Loggers** and Lumbermen or Loyal Legion of Loggers and **Lumbermen**; accept Brotherhood of **Timber** Workers; accept **pine** industry; prompt on **wood** industry; prompt on **forestry**; prompt on **paper** or **pulp** industry] (Goodyear ran the Great Southern Lumber Company.)

<American History>

3. A character in this play compares his wooing of Fiona to the Western Front, saying that he reconnoitered the ground “as far as the actual place,” though ultimately “not into it.” Some people in this play pretend that they were reenacting the Battle of Ypres (“eep”) when they are caught pretending to be in a French brothel where everyone speaks in the subjunctive. A game in which this play’s title characters reenact old movie scenes is considered a waste of time by Irwin, who appears in a wheelchair in this play’s flash-forward scenes because he was in a motorbike accident with a colleague. Posner and Dakin are among the Oxford- and Cambridge-bound title characters of this play, who are sexually assaulted by a teacher. For 10 points, the eccentric Hector teaches the title group of grammar school students in what play by Alan Bennett?

ANSWER: *The **History Boys***

<British Literature>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

4. This painting's artist wrote that its centermost figure "occupies the place of the hero" in borrowing a pose from the Apollo Belvedere, in contrast to a barefoot "ragged wretch who has never been taught" about this painting's title concept. A vignette in the right background of this painting shows campaigners in red sandwich boards reading "Vote for Bobus." In the foreground of this painting, a girl in an oversized garnet dress with her back to the viewer holds a baby as she reaches over to hit her mischievous younger brother. The elegant lady with a parasol and another handing out temperance pamphlets on this painting's left contrast with the dirty flower seller positioned in front of them. On the right of this painting, Frederick Maurice and Thomas Carlyle watch as a trio of navvies digs up a road. For 10 points, name this masterpiece of Ford Madox Brown that shows various Victorians toiling.

ANSWER: **Work**

<Painting & Sculpture>

5. This short story is used as a metaphor for the influence of antinomianism on works like Mary Rowlandson's captivity narrative in a Susan Howe collection titled for it. This story concludes by suggesting that its protagonist "failed to look beyond the shadowy scope of Time ... to find the perfect Future in the present." In this story, the "gross Fatality of Earth" is symbolized by the "hoarse" chuckle of a shaggy servant who is addressed as an "earthly mass" and a "man of clay." A woman in this story leaves the sweet-smelling rooms she's been confined to and intrudes on a "furnace-room" where her husband works with his assistant Aminadab. After testing it on a blotchy geranium, a woman in this story drinks an elixir meant to destroy the "Crimson Hand." For 10 points, name this Nathaniel Hawthorne story in which Aylmer tries to remove his wife Georgiana's title blemish.

ANSWER: "The **Birth-Mark**" [accept *The **Birth-Mark**: Unsettling the Wilderness in American Literary History*]

<American Literature>

6. Gabriel Dorotea Barba led a unit of "loyal Blacks" of this city that fought in the American Revolution. Locals divided this city's boom-and-bust development into two recurring cycles translated as "dead time" and "time of the fleet." During the so-called "Year of the Lash," a government based in this city tortured participants in the "Ladder Conspiracy." 12 guns in a battery protecting this city were collectively nicknamed "the Apostles." Dozens of slaves, including an ancestor of José Antonio Aponte ("uh-PON-tay"), were freed after defending this city from a siege led by George Pocock and George Keppel. British forces trapped a Spanish fleet in this city's harbor during the American theater of the Seven Years' War, after which this city was returned to Spain for Florida. This "Key to the New World" was the largest city planned to be bought in the Ostend Manifesto. For 10 points, name this city where the USS *Maine* sank.

ANSWER: **Havana** [or La **Habana**; accept Battalion of Loyal Blacks of **Havana**] (The Ostend Manifesto envisioned an American purchase of Cuba.)

<World History>

7. The subsistence-shift hypothesis argues that humans in this biogeographic region switched from foraging to agriculture, causing megafaunal decline. George Simpson used this region to illustrate the importance of stochastic dispersal in his sweepstakes model. Anne Yoder showed that all four terrestrial mammal orders found in this region arrived there via a single Cenozoic colonization event. A Late-Cretaceous sandstone formation in this region contains the fossils of the first confirmed cannibalistic dinosaur, *Majungasaurus*, and fossils of the largest known frog, *Beelzebufo ampinga*. The idea that Gondwanan vicariance drove ratite evolution was refuted by the discovery that New Zealand's kiwi is the sister taxon of this region's extinct elephant bird. Most of the world's chameleons are endemic to this island. For 10 points, name this biodiverse island home to the indri, aye-aye, and ring-tailed lemur.

ANSWER: **Madagascar** [or **Madagasikara**] (The mammalian orders are primates, rodents, carnivorans, and afrosericids.)

<Biology>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

8. *Specific term required.* A “cosmopolitan democracy” named for this property is proposed in a 2018 book that critiques the sovereignty-based theories of Sue Donaldson and Will Kymlicka. That book proposing a politics based on this property is by Alasdair Cochrane. Tom Regan’s concept of being the “subject-of-a-life” is rejected in favor of this property in a 2000 book by Gary Francione. Jeremy Bentham was a predecessor of a modern ethical view named for this property that takes it to be the basis for animal rights. “Living being” and this type of being are the standard translations of the word *sattva* (“SUT-vuh”) in Buddhism, in which bodhisattvas (“boh-dee-SUT-vuzz”) hope to benefit all beings with this property. For 10 points, consciousness is sometimes defined minimalistically using what term for the ability to experience feelings, which is often used in science fiction as a rough synonym for “self-awareness”?

ANSWER: **sentience** [or being **sentient**; accept **sentient** beings; accept **sentientism**; accept **sentientist** cosmopolitan democracy; accept **Sentientist Politics**; prompt on “the ability to experience feelings” or “the ability to feel pain” or “the ability to suffer” until “feelings” is read]

<Philosophy>

9. Biochemists using this technique rely on bicelles, bilayers, or bacteriophages to establish a rhombic alignment tensor. This experimental technique is used to compute a protein’s Saupe tensor, its random coil index, and an order parameter symbolized “capital S squared.” This technique is the gold standard for real-time measurement of RNA and protein folding ensembles. During refinement, this technique provides both distance and angular constraints by combining a through-space measurement of cross-polarization with residual dipolar couplings. Unlike cryo-EM or crystallography, this technique provides protein structures in solution through experiments like HSQC or NOESY (“nosy”). Before analysis by this technique, samples are labeled with odd-mass isotopes like nitrogen-15 or carbon-13. For 10 points, name this form of spectroscopy in which nuclear spins are flipped in a magnetic field.

ANSWER: **NMR** [or **nuclear magnetic resonance**; or **magnetic resonance spectroscopy** or **MRS**; accept **NOESY** or **nuclear Overhauser effect spectroscopy**; accept **COSY** or **correlated spectroscopy**; accept **HSQC** or **heteronuclear single quantum correlation spectroscopy**; accept other explicit types of **NMR** such as protein **NMR**, proton **NMR**, carbon-13 **NMR**, or nitrogen-15 **NMR**; prompt on spectroscopy until read]

<Chemistry>

10. Thousands of gymnasts flock to this city to learn under Gabby Douglas’s mentor, Liang Chow. To prevent Halloween vandalism in the 1930s, this city’s Playground Commission encouraged residents to only give out candy after trick-or-treaters told a joke. Jaime Plensa’s *Nomade* is in a garden in this city named for the Pappajohn family. This city’s Henry Wallace House is in its Sherman Hill District. This city’s tallest building is owned by the insurance conglomerate Principal. The World Food Prize is administered from this city by the estate of Norman Borlaug. Waukee and Ankeny are suburbs of this city, the site of a state fair where Norma Lyon crafted hundreds of butter cows. The largest gold dome in the US is on a building in this city that [emphasize] *replaced* the “Old Capitol,” which is now part of its state’s flagship university, represented by the Hawkeyes. For 10 points, name this capital of Iowa.

ANSWER: **Des Moines** (“duh MOIN”)

<Geography>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

11. Leopold Godowsky's heavily virtuosic incomplete solo piano transcription of three of these pieces followed a complete effort by Joachim Raff. Joseph Joachim recommended that Clara Schumann burn a complete piano accompaniment to these pieces by her husband. The "Westphal" and "Kellner" manuscripts are often cited as authoritative in preparing editions of these pieces, along with that of the composer's wife Anna Magdalena. The *galanteries* of these six-movement pieces, which transition between minuet, bourrée, and gavotte, are the only structural differences between them. The D major sixth of these pieces was written for an instrument with five strings. These solo pieces were considered studies until the 20th century, when Pablo Casals began to perform them. For 10 points, name these six large-scale works for solo string instrument by a Baroque composer.

ANSWER: J. S. **Bach's cello suites** [accept Johann Sebastian **Bach** in place of "J. S. Bach"; prompt on cello suites by asking "by what composer?"; prompt on suites]

<Classical Music>

12. Puffs of this element condensing around R Coronae Borealis stars cause them to decrease in luminosity by up to eight magnitudes at irregular intervals. This element makes up the majority of MAONs ("M-A-O-Ns") and other compounds that are thought to be the source of so-called "unidentified infrared emission features." Classifications of stars rich in this element typically include a number indicating the intensity of the Swan bands. The existence of a 7.65 MeV ("M-E-V") excited state of this element with angular momentum and parity 0+ ("zero-plus") was first predicted by Fred Hoyle. Oxygen and this element are the main components of the cores of asymptotic giant branch stars. Diffuse interstellar bands likely originate from compounds with large amounts of this element, such as PAHs ("P-A-Hs") and fullerenes. For 10 points, name this element that is created in the triple-alpha process through the fusion of three helium atoms.

ANSWER: **carbon** [or **C**] (MAONs are mixed aromatic-aliphatic organic nanoparticles. PAHs are polycyclic aromatic hydrocarbons.)

<Other Science>

Note to moderator: Read the answerline carefully.

13. A man from this family paid for his own triumph over the Salassi ("suh-LAH-see") and brought a relative who was a Vestal Virgin in his chariot so that the triumph could not be vetoed. That member of this family served on the agrarian commission set up by Gaius Gracchus and Tiberius Gracchus, the latter of whom was his son-in-law. A woman from this family allegedly single-handedly towed a boat holding a cult image of Cybele ("SIB-uh-lee") up the Tiber when it ran aground. Supposed actions by a man from this family caused Caesar to quip "my wife must be above suspicion" and divorce Pompeia. A man from this family changed the spelling of his name after voluntarily becoming plebeian. That man from this family, who was killed in a street fight by partisans of his rival Milo, cross-dressed as a harpist to infiltrate the all-female rites of Bona Dea ("BOH-nah DAY-uh"). For 10 points, what Roman family produced descendants with the *cognomen* Pulcher ("PUL-care")?

ANSWER: *gens* **Claudia** ("GENZ CLAW-dee-uh") [or **Claudii Pulchri** family or **Clodii Pulchri** family; or *gens* **Clodia**; or **Claudian** family; accept Publius **Claudius** Pulcher or Publius **Clodius** Pulcher; accept Appius **Claudius** Pulcher; accept **Claudia** Quinta; accept **Clodian** family; prompt on Pulcher until it is read]

<Other History>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

14. During an analysis of one of these things, Rabbi Akiva told a man to check for his inheritance behind a beam after he heard the phrase “go up to Cappadocia.” That instance exemplifies the Talmudic practice of studying the linguistic content of these things by splitting Greek words in half. Jacob of Marvege controversially used fasting and these things to study halakha, as recorded in his text *Responsa from Heaven*. A proverb from Maimonides’s *Guide for the Perplexed* states that one of these things is a “sixtieth of prophecy.” During one of these things, several sheaves of grain bowed down to one standing upright. A biblical interpretation of one of these things surmised that seven years of famine would follow seven years of good harvest by assigning significance to seven skinny and seven fat cows. For 10 points, what sort of occurrences did Joseph interpret for Pharaoh?

ANSWER: **dreams** [accept **dream** interpretation or **dream** analysis; accept **chalom**; prompt on **prophecy** until read; prompt on **visions** by asking “that appear in what form?”]

<Religion>

15. A poem by this author opens by declaring, “We are gardeners who have no flowers.” In 2019, a prize named for this author was given to Kamila Shamsie before it was revoked due to her support for BDS. This author’s motifs of dust, sand, and butterflies appear in her book-length poems *Glowing Enigmas* and *Flight and Metamorphosis*. This author was the dedicatee of a poem that ends “We / really don’t / know / what counts” about a meeting at the Stork Inn. The title objects of a poem by this author are described as “the road for refugees to smoke” and “ingeniously devised habitations of death.” This author escaped her home country with the help of Selma Lagerlöf and had a lengthy correspondence with Paul Celan (“SAY-lon”). Shmuel Yosef Agnon and this author of “O the Chimneys” shared the 1966 Nobel Prize in Literature. For 10 points, name this poet who fled from Germany to Sweden to escape the Holocaust.

ANSWER: Nelly **Sachs** [or Leonie **Sachs**; accept Nelly **Sachs** Prize or Nelly **Sachs** Preis]

<European Literature>

16. This psychologist and Joseph Kruskal developed the technique of non-metric multidimensional scaling to help map subjective data. This psychologist used the example of a bird that eats one earthworm and is then presented with a slightly different earthworm to explain the notion of “psychological space” used in his universal law of generalization. Optical illusions named for this man include a figure-ground illusion involving elephant legs and an illusion involving two identical parallelograms that look like the tops of different-sized tables. The film *Dunkirk* prominently features another illusion named for this man, which is a superposition of sine waves that is often compared to a barber pole because it appears to continually ascend or descend in pitch without actually getting higher or lower. For 10 points, name this American cognitive scientist who lends his name to those “tones.”

ANSWER: Roger **Shepard** [or Roger Newland **Shepard**; accept **Shepard** tones; accept **Shepard** tables; accept **Shepard** elephant]

<Social Science>

17. This physicist referred to solid state physics as “squalid state physics.” The field of plectics was introduced by this physicist to refer to research done at the Santa Fe Institute, where he co-founded the Evolution of Human Languages project. Along with a physicist with an alphabetically earlier last name, this physicist popularized Sudarshan and Marshak’s V–A theory. This physicist discusses the interplay between simplicity and complexity in a book whose title pairs a physics concept with a jaguar. A discovery made by this physicist and Yuval Ne’eman (“nay-mahn”) is understood in terms of representations of the SU(3) (“S-U-3”) symmetry group. With Japanese colleagues, this physicist proposed “strangeness,” which he would later use in the Buddhism-butchered Eightfold Way. For 10 points, name this physicist who was inspired by *Finnegans Wake* to choose the name “quark.”

ANSWER: Murray **Gell-Mann** (He popularized V-A theory with Richard Feynman. His book is *The Quark and the Jaguar*.)

<Physics>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

18. The book *Gloomy Memories* counters Harriet Beecher Stowe's description of these events as "almost sublime" in the travelogue *Sunny Memories of Foreign Lands*. A 2018 book by T. M. Devine analyzes these events' historical impact on the *baile* ("BAHL-ee"). After he led one of these events, Patrick Sellar was acquitted of arson and homicide charges. A cause of these events was the introduction of "new breeds" like the Blackface and the Cheviot ("SHEH-vee-ut"). Kelp farming became popular among those subjected to these events, whose most notorious instance was instigated by the Countess of Sutherland. These events were ended by the Crofters Holdings Act. These events began after the Battle of Culloden ("kuh-LAH-din") according to a book that tells "how sheep were preferred to" members of the traditional clan system. For 10 points, what events evicted Gaelic tenants from their land in Scotland?

ANSWER: Highland **Clearances** [or Scottish **Clearances**; accept Sutherland **Clearances**; prompt on Scottish **enclosure** movement; prompt on **evictions** of tenants or word forms until read; prompt on **displacement** of Scottish people or **resettlement** of Scottish tenants or similar answers; reject "Lowland Clearances"]

<European History>

19. A character in a novel by this author hates ballpoint pens because one was jammed between his fingers every day while he was tortured in prison. In a novel by this author, an editor takes a client's manuscript to the censors' office in a chapter structured around the seven slaps that that editor received during a police interrogation. Characters like the Prisoner and the Factory Girl narrate chapters of a novel by this author about a boy who was shot during an uprising. In another novel by this author, a video artist has sex with his sister-in-law, whose petal-shaped birthmark appeals to him, after he paints their bodies with flowers. Deborah Smith translated a novel by this author in which the title character is institutionalized after a dream of slaughtered animals leads her to believe she is a plant. For 10 points, name this author of *Human Acts* and *The Vegetarian*, novels set in her native Korea.

ANSWER: **Han** Kang [reject "Kang"]

<World Literature>

20. A building made out of this material contains a prominent sloping Bengal roof that some theorize was designed by the Italian Geronimo Veroneo. This material makes up the outer layer of the double-layered dome of Humayun's Tomb. The Naulakha ("naw-luh-kuh") Pavilion and Moti Masjid, both inside the Lahore Fort, were built using this material's Makrana variety. A jewel box-shaped building named after I'timād-ud-Daulah ("ih-tee-mad-oooh-DAO-lah") is known as the "Baby" version of a larger monument made from this material, which is used as a base in classic *pietra dura* artworks. This material eclipsed red sandstone in popularity as a building material due to architects like Ustad Ahmad Lahori. A building made of this material is opposite a reflecting pool on the banks of the Yamuna and was built as a mausoleum for the emperor Shah Jahan's wife Mumtaz. For 10 points, name this material that gives a white appearance to the Taj Mahal.

ANSWER: **marble** [accept Makrana **marble**; prompt on **stone** or **rock**] (The Tomb of I'timād-ud-Daulah is called the "Baby Taj.")

<Other Fine Arts>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

BONUSES

1. A federal compromise with Thomas Greenway's provincial government largely ended this crisis. For 10 points each:

[10m] Name this crisis, partly sparked by the passage of the *Official Language Act*, that disputed abolishing separate Protestant and Catholic education in its eponymous province. This crisis largely ended Mackenzie Bowell's government.

ANSWER: **Manitoba Schools** Question [accept descriptions of a political crisis over **schools** in **Manitoba**; accept **MB** in place of "Manitoba"]

[10h] Wilfrid Laurier ("LORR-ee-ay") became Prime Minister after the Manitoba Schools crisis. His Minister of the Interior, Clifford Sifton, ran a hugely successful immigration campaign by marketing Canada's prairies with this three-word slogan.

ANSWER: The "**Last Best West**"

[10e] Sifton was Minister of the Interior during the Klondike Gold Rush, which occurred in this region. This region was officially separated from the North-West Territories in 1898.

ANSWER: **Yukon** [or **Yukon** Territory; or the **Yukon**; or **YT**]

<Other History>

2. *The Sound of the Kiss*, a 16th-century novel from this country, contains many passages that have different meanings in different languages depending on the direction they're read in. For 10 points each:

[10h] Name this modern-day country where a lost "great narrative" written in the "language of ghouls" provided material for medieval prose works like *The Five-and-Twenty Tales of the Genie* and *What Ten Young Men Did*.

ANSWER: **India** [or **Bhārat**; or Republic of **India**; or **Bhārat** Gaṇarājya] (The *Bṛihatkaṭhā* was supposedly written in a language called Paishachi.)

[10e] *Two answers required*. Early modern Indian experimental authors often showed off by writing palindrome-like texts that somehow summarize both of these two major epic poems. Both of these epics feature avatars of Vishnu.

ANSWER: **Rāmāyaṇam** AND **Mahābhārataṃ**

[10m] Nandin's novel *What Ten Young Men Did* uses this type of constrained writing for a chapter whose narrator can't pronounce labial consonants. Georges Perec's *A Void* is one of these texts.

ANSWER: **lipograms** [accept word forms like **lipogrammatic**]

<World Literature>

3. A book by Helen McCabe argues that this philosopher had a coherently socialist outlook. For 10 points each:

[10e] Name this English philosopher who is usually thought of as a prototypical classical liberal because he proposed ideas like the "harm principle."

ANSWER: John Stuart **Mill** [accept *John Stuart Mill*, *Socialist*]

[10m] Other commentators have seen Mill's interest in socialism as a short-lived aberration influenced by this philosopher, who married Mill in 1851.

ANSWER: Harriet **Taylor** [or Harriet **Taylor** Mill; or Harriet **Hardy**; prompt on **Harriet Mill**]

[10h] McCabe notes that Mill's *Principles of Political Economy* describes these organizations as the "nearest approach to social justice" that Mill could imagine. One of these organizations in England set out the Rochdale ("ROTCH-dale") Principles for them in 1844.

ANSWER: worker **cooperatives** [or **co-ops**; or **co-operative** societies; or **co-operative** associations; prompt on **associations** or **societies** or **society**]

<Philosophy>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

4. Answer the following about dramatic portrayals of deaf characters, for 10 points each.

[10h] This play by Mark Medoff focuses on James Leeds, a teacher at a school for the deaf who attempts to learn to communicate with his former student Sarah Norman. Its title comes from Tennyson's *Idylls of the King*.

ANSWER: ***Children of a Lesser God***

[10e] *Children of a Lesser God* was inspired by William Gibson's 1957 play *The Miracle Worker*, which chronicles Annie Sullivan's struggle to teach this person. This disability activist wrote the autobiography *The Story of My Life*.

ANSWER: Helen **Keller** [or Helen Adams **Keller**]

[10m] Craig Lucas insisted on ASL interpreters for his play *I Was Most Alive with You*, which rewrites this character to have a deaf gay son. This character is reimaged as a New York banker in a play that features the vendors Nickles and Mr. Zuss.

ANSWER: **Job** [prompt on **J.B.**] (Archibald MacLeish wrote the unnamed play, *J.B.*)

<American Literature>

5. This musician performed "Shake, Sugaree" for a 1983 live album that won her a Grammy at the age of 90. For 10 points each:

[10h] Name this folk musician behind the song "Freight Train." Her namesake style of guitar picking requires playing the melody with the thumb while holding the guitar upside-down.

ANSWER: Elizabeth **Cotten** [or Libba **Cotten**; or Elizabeth **Nevills**; or Libba **Nevills**; accept "**Cotten** picking"]

[10e] Cotten's music gained popularity during the '50s and '60s folk revival due to the influence of this family, who employed Cotten as a maid. Pete, a folk singer and activist from this family, popularized "We Shall Overcome."

ANSWER: **Seeger** family [accept Pete **Seeger** or Peter **Seeger**]

[10m] "Freight Train" was covered by the Quarrymen, a skiffle band from this city. A later band from this city recorded the tongue-in-cheek song "Yer Blues" and plagiarized Chuck Berry's "You Can't Catch Me."

ANSWER: **Liverpool** (John Lennon, Paul McCartney, and George Harrison were in the Quarrymen before the Beatles. The plagiarism case refers to "Come Together.")

<Other Fine Arts>

6. These people lick nails and drive them into *nkondi* reliquary figures so that if a serious offense is committed, they will come to life and bring justice. For 10 points each:

[10h] Name these Congolese spirit healers whose name derives from a Bantu word for "medicine." These people lend their names to the cauldrons used in Palo Mayombe rituals.

ANSWER: **nganga** [or **n'angas**; or **banganga**; accept **sangoma** or **mungoma**; accept **nyanga**]

[10m] Practitioners of this religion from the same country as Palo place sticks into cauldrons when honoring Elegua. Initiates in this religion are given beads and have their heads shaved after omiero washing.

ANSWER: **Santería** [or **Regla de Ocha** or Regla **Lucumí**]

[10e] Ngangas determine how to treat illnesses through this practice by throwing wood pieces called hakata on the ground. In Ifá, kola nuts are used for this practice, whose many methods are denoted by the suffix "-mancy"

ANSWER: **divination** [or **predicting the future**; or **fortune-telling** or similar; accept **sortition** or **casting lots**; prompt on **magic**]

<Religion>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

7. Aḥmad ibn Ḥanbal was skeptical of most accounts of these events, like those by al-Wāqidī, because they did not meet his criteria for “sound transmission” of historiographical works. For 10 points each:

[10h] Name these events, oral histories of which were central to the *maghāzī* genre pioneered by al-Zuhrī and Mūsā ibn ‘Uqba.

ANSWER: **raids** of **Muhammad** [or **battles** of **Muhammad**; accept military **campaigns** of **Muhammad** or military **expeditions** of **Muhammad**; accept Meccan **caravan raids**; prompt on **deeds of Muhammad** or similar; prompt on answers like military **expeditions** or **battles** or **raids** by asking “led by whom?”; accept **Mohamet** or the **Prophet** Muhammad in place of “Muhammad”; reject “prayer battles”]

[10e] *Maghāzī* literature details raids against the Quraysh in this city. The Treaty of Ḥudaybiyyah allowed the followers of Muhammad to make a pilgrimage to this city in 629.

ANSWER: **Mecca** [or **Makkah** al-Mukarramah]

[10m] *Maghāzī* texts are considered a subset of *sīra* literature exemplified by this historian’s 8th-century biography of Muhammad. That biography by this historian only survives through edited versions made by ibn Hishām and al-Ṭabarī.

ANSWER: **ibn Ishāq** [or Muhammad **ibn Ishāq** ibn Yasār ibn Khiyār]

<World History>

8. To prevent one of these intermediates from rearranging during a Friedel–Crafts alkylation, you can perform an acylation instead and then reduce the ketone. For 10 points each:

[10m] Name these intermediates formed under acid catalysis that rearrange via hydride or methanide shifts.

ANSWER: **carbocations** (“carbo-cat-ions”) [or **carbenium** or **carbonium** ions; accept **arenium** ions or **Wheland** intermediates; prompt on **cations** or **ions**]

[10e] Carbocations rearrange to let this atomic orbital on the carbon accept electrons from nearby pi or sigma-star orbitals. A carbocation’s bonding orbitals are hybridized from one s orbital and two of these atomic orbitals.

ANSWER: **p** orbitals [accept **2p** orbitals]

[10h] Unlike in carbocations, the [emphasize] *more*-substituted alkyl group shifts to an electron-deficient oxygen in the concerted final step of this named reaction. Migratory aptitude is often taught in the classroom in the context of this reaction.

ANSWER: **Baeyer–Villiger** reaction [or **Baeyer–Villiger** oxidation; or **Baeyer–Villiger** rearrangement; or **BV** oxidation]

<Chemistry>

9. This artist’s unfinished last work *It’s all about ME, Not You*, a recreation of her Chicago apartment, became part of the permanent collection of Pittsburgh’s Mattress Factory in 2014. For 10 points each:

[10h] Name this transgender artist who created hundreds of dolls depicting figures in New York City’s East Village art scene.

ANSWER: Greer **Lankton**

[10e] The artist’s statement for Lankton’s *It’s all about ME, Not You* describes this other artist as “the dullest person I ever met in my life.” This artist’s namesake “superstars” included transgender actress Candy Darling.

ANSWER: Andy **Warhol** [or Andrew **Warhola** Jr.]

[10m] Lankton was a frequent subject of David Wojnarowicz, who created a controversial work in this medium titled *A Fire in My Belly*. Andrea Fraser’s *Untitled* and Matthew Barney’s *Cremaster* are sexually-explicit works in this medium.

ANSWER: **video** art [accept **films** or **movies** or **motion pictures**]

<Painting & Sculpture>

2023 ACF Nationals | Playoffs Round 3. Editors 3

Editors: Harvey, Apte, Evans, Golden, Karim, Kearney, Mao, Nediger, Peet, Settle, Silverman

10. Answer the following about electromagnetic fields in matter, for 10 points each.

[10e] In matter, Maxwell's equations are formulated with the H field replacing this field. This field only exerts a force on moving charged particles.

ANSWER: **magnetic** field [or **B** field]

[10m] This type of charge is the source of the polarization in matter. This type of charge represents atoms or molecules that become dipoles in the presence of an external electric field.

ANSWER: **bound** charge

[10h] In media for which the polarization is a nonlinear function of the electric field, this effect can occur. In this effect, some of the energy of a propagating electromagnetic wave is converted into a wave with twice the frequency.

ANSWER: **second harmonic generation** [accept **SHG**; prompt on frequency doubling or sum-frequency generation or harmonic generation]

<Physics>

11. International relations theorists often ask why states repeatedly engage in this activity even though it is highly costly. For 10 points each:

[10e] Name this activity that Carl von Clausewitz ("KLOW-zuh-vitz") called "the continuation of policy by other means."

ANSWER: **war** [or **warfare**; accept **battle** or **combat**; prompt on conflict or violence]

[10m] This political scientist attributed the recurrence of war to the anarchical nature of the international system, which is the third of the three "images of analysis" in his book *Man, the State, and War*.

ANSWER: Kenneth **Waltz** [or Kenneth Neal **Waltz**]

[10h] This Stanford scholar explained war in terms of information asymmetries, commitment problems, and issue indivisibilities in his 1995 paper "Rationalist Explanations for War."

ANSWER: James **Fearon** [or James Dana **Fearon**]

<Social Science>

12. This group represented the second Japanese visit to Europe, coming after a man named Bernardo 30 years prior. For 10 points each:

[10h] Name this Japanese embassy, primarily composed of four teenagers, that toured Europe in the 1580s under the direction of Itō Mancio and Alessandro Valignano ("val-in-YAH-noh"). This embassy introduced the printing press to Japan on its return.

ANSWER: **Tenshō** embassy [or **Tenshō** shōnen shisetsu embassy; or **Tenshō** boys' embassy]

[10e] Valignano was a member of this Catholic order founded by the author of the *Spiritual Exercises*. Francis Xavier, a member of this order, helped lead Catholic evangelization in Japan.

ANSWER: **Jesuit** Order [or **Jesuits**; or **Society of Jesus**; or **Societas Iesu**; prompt on **SJ**]

[10m] The Tenshō embassy met this pope just before his death and attended Sixtus V's subsequent coronation. This pope implemented a recommendation from the astronomers Aloysius Lilius and Christopher Clavius via the bull *Inter gravissimas*.

ANSWER: **Gregory XIII** ("the thirteenth") [or Ugo **Boncompagni**; or **Gregorio XIII**; or **Gregorius XII**; I prompt on Gregory or Gregorian calendar]

<European History>

2023 ACF Nationals | Playoffs Round 3. Editors 3

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13. A book by Roland B. Dixon records a creation myth from this region in which the cosmic spider Areop-Enap squeezes into a mussel shell and creates the world with help from a profusely sweating worm. For 10 points each: [10h] Name this cultural region home to the sky god Luk and his son Olofat, a trickster figure who upsets children by giving spines to the previously-harmless scorpionfish while visiting the heavens.

ANSWER: **Micronesia** [accept **Nauru**; accept **Caroline** Islands or **Gilbert** Islands; accept **Mariana** Islands; accept Federated States of **Micronesia**; accept **Pelew** Islands; accept **Yap**; prompt on the **Pacific** Ocean; prompt on **Oceania**]

[10e] Olofat's dual role as hero and trickster parallels that of this figure from Polynesian mythology, who slowed down the sun by beating it with the jawbone of his grandmother.

ANSWER: **Māui**

[10m] While in heaven, Olofat altered some docile pets by equipping them with these objects. Māui was killed by obsidian examples of these objects belonging to the night goddess Hine-nui-te-pō.

ANSWER: **teeth** [or **tooth**; accept shark **teeth**; accept vagina **dentata**]

<Mythology>

14. A Mississippi Senator with this surname drew a pistol on Thomas Hart Benton during heated arguments over the Compromise of 1850. For 10 points each:

[10m] Give this surname of a Union admiral who led gunboats at the Battle of Fort Henry. A historian with this surname and first name Shelby narrated much of Ken Burns's *The Civil War*.

ANSWER: **Foote** [accept Shelby Dade **Foote** Jr.; accept Henry Stuart **Foote**; accept Andrew Hull **Foote**]

[10e] Shelby Foote's work has come under fire in recent years for its sympathetic treatment of this myth, which posits that the Confederacy fought primarily for glory, not to preserve slavery.

ANSWER: **Lost Cause** [or **Lost Cause** of the Confederacy]

[10h] A 1907 letter by this ex-Confederate disputes the Lost Cause myth. This "Gray Ghost" led namesake Confederate "rangers" to attack Union supply routes in Northern Virginia and later joined the Republican party.

ANSWER: John S. **Mosby** [or John Singleton **Mosby**; accept **Mosby**'s Rangers or **Mosby**'s Raiders]

<American History>

15. An accessory protein to this complex, ZRSR2, is mutated in some cases of myelodysplastic ("MY-uh-lo-diss-PLASS-tick") syndrome. For 10 points each:

[10h] Name this complex, first described by Woan-Yuh Tarn and Joan Steitz, that includes U4atac ("U-four-attack") and U6atac ("U-six-attack"). This complex binds to regions with AT-AC or GT-AG sites that unusually lack a polypyrimidine ("poly-PEER-im-ih-deen") tract.

ANSWER: **minor spliceosome** [accept **U12-dependent spliceosome**; prompt on **spliceosome**; prompt on descriptions of an **alternate splicing** complex or similar]

[10e] The minor spliceosome is ubiquitously expressed, but its mutations mostly affect the nervous system. For instance, U11 mutations cause a dwarfism named for this birth defect also linked to maternal Zika virus infections.

ANSWER: **microcephaly** [accept **microcephalic** osteodysplastic primordial dwarfism; accept descriptions like "having a **small head**"; prompt on **MOPD1**]

[10m] Microcephaly-causing U11 mutations deplete these cells' radial, Bergmann, and Müller types by forcing them to undergo neurogenesis instead of replicating or differentiating into other types of these cells.

ANSWER: **glia** [or radial **glial** cells; or neuro**glia**; accept Müller **glia**; accept Bergmann **glia**]

<Biology>

2023 ACF Nationals | Playoffs Round 3. Editors 3

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16. Sir Trevisan flees from this character, who sits in a cave beside a corpse wallowing in its own “lukewarm blood.” For 10 points each:

[10h] Name this character who nearly convinces the Redcrosse Knight to kill himself.

ANSWER: **Despair**

[10e] Despair and the Redcrosse Knight appear in this epic by Edmund Spenser.

ANSWER: *The **Faerie Queene***

[10m] A giant named Despair tries to convince the protagonist of this novel to kill himself. The protagonist of this novel also falls into a bog called the Slough of Despond.

ANSWER: *The **Pilgrim's Progress*** [or *The **Pilgrim's Progress** from This World, to That Which Is to Come*] (by John Bunyan)

<British Literature>

17. Per Nørgård recalled how he snuck one of this composer’s scores into a stack of student compositions that he was reviewing with György Ligeti. For 10 points each:

[10h] Name this early 20th-century Danish composer who utilized slow-moving cluster textures, as well as an entire offstage orchestra, to depict heaven in his *Music of the Spheres*.

ANSWER: Rued **Langgaard** [or Rud Immanuel **Langgaard**]

[10e] *Music of the Spheres* includes a “glissando” version of this instrument, which used similar techniques to Henry Cowell’s *The Banshee*. Cowell’s piece inspired John Cage to develop the concept of “preparing” this instrument.

ANSWER: **piano** [or **pianoforte**; accept prepared **piano**]

[10m] This French composer used a slightly evolved version of tone-clusters in his conception of “organized sound” using “sound-masses,” which he employed in works like *Hyperprism* and *Ameriques*.

ANSWER: Edgard **Varèse** [or Edgar **Varèse**; Edgard Victor Achille Charles **Varèse**]

<Classical Music>

18. John Hughes’s novel *The Dogs* was removed from the longlist for Australia’s Miles Franklin Prize after The Guardian discovered 58 instances of plagiarism from this author’s book *The Unwomanly Face of War*. For 10 points each:

[10m] Name this author and journalist who wrote oral histories like *Zinky Boys* and *Voices from Chernobyl*.

ANSWER: Svetlana **Alexievich** [or Svetlana Alexandrovna **Alexievich**]

[10e] Hughes took verbatim the description of a man who crawls “for a full half-mile on his hands, dragging his legs behind him” from this novel about Paul Bäumer’s (“BOY-mer’s”) harrowing experiences during World War I.

ANSWER: ***All Quiet on the Western Front*** [or ***Im Westen nichts Neues***] (by Erich Maria Remarque)

[10h] Hughes also ripped off this 1992 novel about four Jewish men in exile, including the doctor and gardening enthusiast Henry Selwyn and the narrator’s gay great-uncle Adelwarth.

ANSWER: *The **Emigrants*** [or *Die **Ausgewanderten***] (by W. G. Sebald)

<European Literature>

2023 ACF Nationals | Playoffs Round 3. Editors 3

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19. Answer the following about the relationship between the Earth’s climate and LIPs (“lips”), or large igneous provinces, for 10 points each.

[10e] The Deccan Traps LIP is correlated with this extinction event. This extinction event is usually linked to the asteroid impact that formed the Chicxulub (“chick-shuh-LUB”) crater.

ANSWER: **K–T** extinction event [or **Cretaceous–Tertiary** extinction event, **K–Pg** extinction event, **Cretaceous–Paleogene** extinction event, or **end-Cretaceous** mass extinction; reject “Cretaceous,” “Tertiary,” or “Paleogene”]

[10h] The Columbia River Basalt Group correlates with a nearly two-million-year-long event in the middle of this epoch that reversed the long-term Cenozoic cooling trend. In this epoch, the Tethys Sea connection between the Mediterranean Sea and Indian Ocean closed.

ANSWER: **Miocene** [accept Middle **Miocene** Climatic Optimum]

[10m] Xiaochuan Tian and W. Roger Buck propose that LIPs erupt after these intrusions form and crystallize, which releases large amounts of CO₂. These concordant intrusions form beds parallel to the surrounding country rock.

ANSWER: **sills**

<Other Science>

20. In October 2022, Native American tribes urged this state’s Congress to repeal its House Bill 1775, which prohibits the teaching of critical race theory. For 10 points each:

[10e] Name this state, half of whose land was declared to belong to Native American nations like the Muscogee in the 2020 Supreme Court case “*McGirt v.*” this state.

ANSWER: **Oklahoma** [or **OK**; accept *McGirt v. Oklahoma*]

[10h] The *McGirt* decision hinged on the fact that reservations that enforced this class of crimes were never disestablished. An 1885 law defines these crimes that are prosecuted at the federal level despite being committed on a reservation.

ANSWER: **major** crimes [accept **Major** Crimes Act]

[10m] In November 2022, the Supreme Court heard challenges to the “active efforts” standard applied to this practice in Native communities by the 1976 ICWA as part of the case *Haaland v. Brackeen*.

ANSWER: child **adoption** [or word forms such as **adopting** a child; accept **foster** care or **foster** homes or being a **foster** parent; prompt on **parenting**; prompt on **family preservation** or **keeping families together** or equivalents by asking “what process results from the failure of the active efforts standard?”]

<Current Events>