



**ACADEMIC
COMPETITION
FEDERATION**

2023 ACF NATIONALS

Playoffs Round 4

Packet By

The Editors (4)

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TOSSUPS

1. This ecosystem can be clustered into groups dominated by one of the *crispatus*, *iners*, *gasseri*, or *jensenii* species of a certain genus or by other anaerobic species. During this ecosystem's development, deposition of glycogen in its surroundings facilitates acidification and colonization. Nugent scores characterize a dysbiosis of this ecosystem that can be corrected with metronidazole gel. That dysbiosis of this ecosystem occurs when *Atopobium*, *Prevotella*, or *Gardnerella* species form biofilms that replace normal inhabitants. Boric acid capsules prevent the overgrowth of *Candida* in this ecosystem, which may be triggered by antibiotic use. A discouraged "seeding" procedure exposes C-section infants to this ecosystem, which they otherwise would not contact. For 10 points, name this *Lactobacillus*-dominated environment that maintains the acidic conditions of a major reproductive structure.

ANSWER: **vaginal microbiome** [or **vaginal microbiota**; or **vaginal microflora**; or **microbiome** of the **female genital** tract; prompt on **vagina** or **female genital** tract or **FGT**; prompt on human **microbiome** or **microbiota** or **microflora**; reject "gut microbiome" or equivalents; reject "skin microbiome" or equivalents]

<Biology>

2. This artist painted two eyeballs joined to a bleeding broken column and a yellow skeletal arm in a painting from their brief surrealist phase. Shells, keys, and coins inserted into an iron wagon wheel make up this artist's *Mosaic Table*. This artist created artworks like *Milkweed* by tearing up older paintings deemed insufficient and rearranging the scraps, a practice that resulted in much of their early oeuvre being lost. This student of Hans Hofmann divided dark backgrounds into hundreds of hieroglyphic-like skeins ("skeens") with white lines in the *Little Image* series. Pink and dark purple curved masses dominate this artist's large painting *Gaea*. This artist worked with canvasses on the floor of her bedroom on a Springs, Long Island estate while her partner did the same on a much larger scale in their barn. For 10 points, name this abstract expressionist painter who was married to Jackson Pollock.

ANSWER: Lee **Krasner** [or Lenore **Krasner** or Lena **Krassner**]

<Painting & Sculpture>

3. An essay titled for this place recalls the violent past of the now-peaceful Swiss, who "feast... with their mild cheeses and apathetic watches." The author has "no desire to give shape" to the ideals of Thomas Mann's Tonio Kröger in an essay titled for this place that describes an explorer who saw "pigs with their umbilicus on their backs and birds without feet." It's not a country, but an essay titled for this region uses the metaphor of a tiger with flames shooting from its eyes. The narrator proclaims, "Whatever is left of that sleepy hometown in [this region] must awaken" in an essay that opens with a villager unaware of "giants in seven-league boots." The 1982 Nobel Lecture is titled "The Solitude of [this region]" and is by Gabriel García Márquez. For 10 points, Mario Vargas Llosa and Carlos Fuentes were part of a 1960s literary movement known as what region's namesake "Boom?"

ANSWER: **Latin America** [or **América Latina**; accept **Latin American** Boom or Boom **Latinoamericano**; accept "The Solitude of **Latin America**"; prompt on **South America** or **Sudamérica** or **América del Sur**; prompt on **Central America**; prompt on "Our **America**" or "Nuestra **América**" by asking "what region does that refer to?"]

<World Literature>

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4. This object titles a 2021 book by John S. Strong that analyzes claims of its destruction by Gaspar de Leão. Women used flower trays to conceal weapons during a 1989 attempt by the JVP to steal this object, which is held in a series of seven nested golden caskets, each adorned with a different gemstone. The building housing this object features a golden ceramic tiled canopy that was damaged in a 1998 suicide bombing by a wing of the LTTE called the Black Tigers. Anawrahta received a replica of this object as a gift after he sent monks to the Kingdom of Polonnaruwa. According to the *Dāṭhavaṃsa*, the princess Hemamala smuggled this object out of Kalinga by hiding it in her hair after the arhat Khema took this object from its original owner's funeral pyre. For 10 points, a temple next to the Royal Palace of Kandy enshrines what sacred symbol of the Sinhalese rulers of Sri Lanka?

ANSWER: **tooth** of the **Buddha** [or **tooth** relic of **Gautama** Buddha; or **danta dhātu**; or **dat dhātu**; accept *The Buddha's Tooth: Western Tales of a Sri Lankan Relic*; prompt on **relic** of Gautama Buddha, Buddhist **relic**, **danta**, **dhātu**, **cetiva**, or **sharīra**] (JVP stands for Janatha Vimukthi Peramuna. The LTTE is the Tamil Tigers.)

<Religion>

5. This composer developed the pseudo-serialist “micro cell” technique as a member of the New Consonance Improvisational Group. An anvil, a bell, a whip, and a recorder playing rapidly descending sixteenth notes accompany chants of “wind and fire” in a piece by this composer modeled on “Degüello” (“deh-GWEH-yoh”) by Dimitri Tiomkin. This composer and Joan Baez (“BUY-eh”) paid tribute to Sacco & Vanzetti on the song “Here’s to You.” In a piece by this composer, the English horn, and later Edda Dell’Orso’s wordless soprano vocals, play a theme with the notes “short A, long C, short E, long C.” In the opening of a theme by this composer of “Gabriel’s Oboe,” the flute plays a two-note trill that mimics a coyote’s howl, followed by a “wah-wah-wah” sound. For 10 points, name this composer of “The Ecstasy of Gold,” part of the score to Sergio Leone’s “spaghetti western” *The Good, The Bad, and the Ugly*.

ANSWER: Ennio **Morricone** (“mor-ih-KOH-nay”)

<Other Fine Arts>

6. In the aftermath of this event, Richard Slater received a televised public reprimand for conspiring with foreign media. Referred to as either a cobbler, a house painter, or a taxi driver, Augustine Kamya led a local boycott that inspired this event over a decade later. Although a group nicknamed the “men dripping with oil” benefitted from this event, they later backed a similarly-named coup attempt led by Patrick Kimumwe. Those illegitimate entrepreneurs known as the *mafuta mingi* won their fortunes by selling off unclaimed shop inventories after this event, the highest-profile aspect of an “economic war” declared by a leader who later lost power after the Kagera War. After this event, the fourth Aga Khan lobbied Pierre Trudeau to accept over seven thousand refugees. For 10 points, comments that “Africa was for Africans” precipitated what 1972 action taken by dictator Idi Amin?

ANSWER: **expulsion** of **Asians** from **Uganda** [accept answers like Idi **Amin**’s **expulsion** of **Asians** until “Idi” is read; accept **Gujaratis**, **Indians**, **Desis**, or South **Asians** in place of “Asians”; accept word forms like **expelled** or **expelling** in place of “expulsion”; prompt on **expulsion** of **Asians** by asking “from what country?”] (The 1977 coup attempt against Amin was codenamed Operation Mafutamingi.)

<World History>

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7. Before the expedition narrated in the *Doloneia*, one of these objects that once belonged to Phoenix's father Amyntor was given to Odysseus by Meriones. On the first day of the Trojan War, Achilles used either a rock or part of one of these objects to defeat an invulnerable king of Kolonai named Kyknos, who then turned into a swan. At the walls of Troy, Hector and Andromache laughed when one of these objects frightened Astyanax. Aphrodite broke one of these objects to save Paris from strangulation during his duel with Menelaus. The Cyclopes created one of these objects at the same time as Poseidon's trident and Zeus's thunderbolts. According to the *Bibliotheca*, Perseus used one of these objects to escape the Gorgons after the Hesperides gave it to him along with a bag and winged sandals. For 10 points, Hades owned what type of object that made its wearer invisible?

ANSWER: **helmets** [or **helms**; or **caps**; accept helmet **straps**, **thongs**, **crests**, or **plumes**; accept **helmet** of invisibility]

<Mythology>

8. A 2022 revival of this play in London's Almeida Theatre was the last joint appearance of married actors Marcello Magni and Kathryn Hunter. A character in this play often consoles another by telling him that he could have had occupations like "head president, head king, or even head doctor." Stage directions instruct the lighting to steadily increase throughout this play until a moment when fanfares play from the wings of its semicircular set. It's not *Waiting for Godot*, but characters from this play echo "he will come" before a man enters dressed like a 19th-century painter. At the end of this play, that character makes "guttural sounds" like "heu, heu, gu you" before writing the word "ANGELFOOD" on a blackboard. In this play, the Emperor is among the dozens of invisible characters who arrive to see a speech by the Orator. For 10 points, name this Eugene Ionesco play about an elderly couple in a room full of furniture.

ANSWER: *The **Chairs*** [or *Les **Chaises***]

<European Literature>

9. A 1986 book about classical Indian theories of this concept by Bimal Krishna Matilal defends a modern version of the theory of this concept espoused in a series of sutras by Aksapāda Gautama ("ahk-shah-PAH-dah gow-TAH-mah"). A philosophical school named for the absence of this concept included Sanjaya Belatthiputta ("sahn-JYE-uh beh-lah-tee-POO-tah") and other thinkers who were known as "eel-wrigglers" because of their argumentative techniques. Jain ("jyne") philosophers typically identify five varieties of this concept, including *avadhi* ("ah-VAH-dee") and *mati* ("MAH-tee"). In some schools, *anupalabdhi* ("uh-NOOP-uh-LOB-dee"), or "non-perception," is considered one of this concept's sources. *Upamāna* ("oo-pah-MAH-nah") and *anumāna* ("ah-noo-MAH-nah") are among the six main sources of this concept, or *pramanas* ("prah-MAH-nahs"). The Sanskrit word for this concept is *jñāna* ("j'NAH-nah"). For 10 points, in classical Indian philosophy, the sources of what concept include inference and perception?

ANSWER: **knowledge** [accept ***jñāna*** until read; accept *Perception: An Essay on Classical Indian Theories of **Knowledge***]

<Philosophy>

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10. In these people's first settlement, the Black interpreter Mathieu da Costa and the centenarian shaman Membertou were members of a social club called the "Order of Good Cheer." These people reclaimed salt marshes using pine log sluices that blocked water at high tide and drained water at low tide in the *aboiteau* ("ah-bwah-TOH") system. These people are not indigenous, but a man nicknamed "Beautiful Sun" led militias of them in a raid on Dartmouth and fought Gorham's Rangers at the Battle of Chignecto. These people refused to take the loyalty oath mandated by Charles Lawrence after they lost a war in which they were led by Joseph Broussard and Father Le Loutre. Many of these people fled to live with their Mi'kmaq ("MEEG-mah") allies rather than be crowded aboard disease-ridden ships during the "Grand Dérangement." For 10 points, name these people who were expelled from their eponymous French Canadian colony in 1755.

ANSWER: **Acadians** [prompt on **French** colonists or colons **français**; prompt on New **French**; prompt on French **Canadians**; reject "Cajuns"] ("Beausoleil" was Broussard's nickname.)

<Other History>

11. In a poem partly titled for this person, a figure named Hope holds out "the mind's own mirror" to this man but sees her own reflection. This person "plays in ten thousand places, lovely in limbs, and lovely in eyes not his," according to a poem that says that "each mortal thing" cries "What I do is me: for that I came." The speaker claims "I am all at once what [this person] is" at the end of the poem "That Nature is a Heraclitean Fire." A poem dedicated to this person uses the phrase "morning's minion" to describe a kestrel. A woman calls out to this person to "come quickly" as she is about to drown in "The Wreck of the Deutschland." For 10 points, Gerard Manley Hopkins dedicated "The Windhover" to what religious figure?

ANSWER: **Jesus** Christ [or Jesus **Christ**; accept "Hope holds to **Christ** the mind's own mirror out"; accept "The Windhover: To **Christ** Our Lord"; prompt on **God**; prompt on the **Lord**] (The poem in the second clue is "As Kingfishers Catch Fire.")

<British Literature>

12. This quantity is measured for an NCE ligand ("LIG-und") to determine the state of spin-crossover iron complexes, since it increases by 10 percent upon excitation. The Fourier ("FOR-ee-ay") transform of the gas-phase molecular intensity curve is a histogram plotting this quantity, which is also the first peak in a crystal's pair distribution function. It's not a reaction rate, but due to *trans* influence, this quantity increases for ligands opposite sigma acceptors in square planar complexes. Monoclinic crystals have three different values for this quantity labeled *a*, *b*, and *c*. Without pseudorotation, this quantity is greater for apical than equatorial ligands in trigonal bipyramidal complexes. Conversely, two distinct values for this quantity are measured on octahedral copper complexes because of a Jahn ("yahn")–Teller distortion. For 10 points, a crystal's lattice constant is analogous to what quantity, which is usually about an angstrom?

ANSWER: metal-ligand **bond length** [or **bond distance**; or **bond radius**; or **interatomic spacing**; or **interatomic distance**; accept **lattice parameter** or **lattice constant** until "lattice" is read; prompt on **length**, **distance**, **radius**, or **spacing**; prompt on *a* until read; prompt on *d*; prompt on *r*]

<Chemistry>

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13. This city, whose university was often called the “Leucorea” (“loo-koh-RAY-uh”), had its castle library maintained by the chaplain George Spalatin. A group of 12 nuns fled to this city after being smuggled from a convent in barrels usually used to transport herring. To support her family, a woman raised livestock and ran a brewery out of this city’s converted “Black Cloister.” A pastor in this city was dubbed “Doctor Pomeranus” but was really named Johannes Bugenhagen (“yo-HAHN-niss boo-ghin-HAH-ghin”). The three “Zwickau (“TSVIK-ow”) Prophets” sparked a dispute in this city, where Katharina von Bora got married. This city’s All Saints’ Church housed the grave of Frederick the Wise of Saxony. A document promulgated in this city condemned the theory that “as soon as a coin in the coffer rings, the soul from purgatory springs” advanced by Johann Tetzel. For 10 points, name this city where Martin Luther posted his 95 Theses.

ANSWER: **Wittenberg** (“VIT-in-burg”) [accept University of **Wittenberg** or Universität **Wittenberg**; prompt on **Lutherstadt** until “Luther” is read] (“Leucorea” in Greek means “white mountain,” just as “Wittenberg” does in German. Luther’s wife, Katharina von Bora, was among the nuns who fled to Wittenberg and was the woman who ran the brewery in the former Black Cloister.)

<European History>

14. Scholars who emphasize the causal primacy of this concept are criticized as “downwards conflationists” in a 2003 book whose title starts with this word by Margaret Archer. This term refers to the rules and resources found in people’s “memory traces,” according to a sociologist who defined the “duality” of this concept as the fact that it is “both medium and outcome of reproduction of practices.” As a solution to the long-standing debate over the roles of agency and this concept in shaping behavior, Anthony Giddens developed a theory named for this concept plus the suffix “-ation.” This is the first title concept of a book that outlines the AGIL (“agile”) paradigm, which is titled for this concept with respect to “social action.” For 10 points, what concept names a type of functionalism that was practiced by Talcott Parsons?

ANSWER: social **structure** [accept **structuralism**; accept **structuration**; accept *The **Structure** of Social Action*; accept **structural** functionalism]

<Social Science>

15. This composer’s cello concerto ends with the soloist playing a glissando cadence to a low C, and incorporates two separate cadenzas in its third movement. After a quiet, layered horn chord, a symphony by this composer begins with an obsessive eighth-sixteenth rest-sixteenth ostinato in the violas; that B-flat minor symphony’s irregularly metered second movement is marked *Presto con malizia*. While living in self-imposed exile on Ischia, this composer continually revised his setting of absurdist spoken poems by Edith Sitwell, titled *Façade*. This composer’s *Orb and Sceptre* march was written for the coronation of Queen Elizabeth II and followed his earlier coronation march *Crown Imperial*. After Lionel Tertis rejected it, Paul Hindemith premiered this composer’s Viola Concerto. For 10 points, name this British composer of the cantata *Belshazzar’s Feast*.

ANSWER: William **Walton** [or William Turner **Walton**]

<Classical Music>

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16. After the daughter of a former president of this country worked on a telenovela with the communications company Amrobrite, the firm was hired by Bain and Company to weaken this country's largest tax collecting agency. A 2017 scandal revealed that the British PR firm Bell Pottinger created and spread a three-word phrase via bots on this country's internet to deflect attention from Oakbay Investments's state capture allegations. The largest sulfur dioxide emitter in the world is a firm in this country whose corrupt contracts were investigated by the Zondo Commission. In this country, André de Ruyter alleged that criminal cartels siphon cash from failing coal plants at the public utility, Eskom. This country's conspiracy about "White Monopoly Capital" was spread by the Gupta Family. For 10 points, name this country where Cyril Ramaphosa inherited a kleptocracy run by Jacob Zuma.

ANSWER: **South Africa** [or Republic of **South Africa** or **RSA**; or **Ningizimu Afrika**, **Mzantsi Afrika**, **Suid-Afrika**, **Afrika Borwa**, **Afrika Dzonga**, **Afurika Tshipembe**, or **Sewula Afrika**]

<Current Events>

17. A film with this property pins the top film of permalloy ("perm-alloy") in valve-like devices used as hard-drive read heads. Doping the insulator LaMnO₃ with calcium or strontium causes it to [emphasize] *stop* exhibiting this phenomenon and become highly conductive. The first conclusive evidence of a material exhibiting this phenomenon came from Clifford Shull and Samuel Smart's neutron diffraction experiment. In an archetypal example of this phenomenon, it arises because *d* electrons partially occupy the antibonding orbital of a Mn–O–Mn chain, and thus the manganese ions can interact across oxygen via superexchange. Uniquely, chromium exhibits this phenomenon at room temperature. In materials exhibiting this phenomenon, susceptibility increases with temperature up to the Néel ("nay-EL") temperature. For 10 points, name this phenomenon in which neighboring spins point in opposite directions.

ANSWER: **antiferromagnetism** [or **antiferromagnetic** materials; prompt on **magnetism** or **magnetic** materials or materials with **magnetic** ordering; reject "ferromagnetism," "diamagnetism," "paramagnetism," or any other more specific forms of magnetism] (The first sentence refers to spin valves.)

<Physics>

18. When this character realizes he has torn up a photo of his wife, a stage instruction compares the ensuing silence to "the room of a dying man where people hold their breath." In a play, this man recalls leaving his hometown with the help of a loan from Mollie Arlington, the madame of a hooker shop. A miserable birthday party is compared to "the second feast of Belshazzar, with [this character] to do the writing on the wall!" This man bullies an old friend into taking a "walk around the ward" that is cut short when that friend pretends he was nearly run over by a car. A 45-minute-long monologue by this character explains how his wife's loving acceptance of his affairs drove him to kill her. After this character is arrested, Larry Slade snaps and orders Don Parritt to jump off a fire escape. For 10 points, name this salesman awaited by the regulars of Harry Hope's bar in Eugene O'Neill's play *The Iceman Cometh*.

ANSWER: **Hickey** [or Theodore **Hickman**; or **Theodore** Hickman]

<American Literature>

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19. One of these functions that is defined in terms of maps of a closed subcomplex of a CW-complex can always be extended to be defined in terms of maps of the entire complex. If one of these functions exists between the identity map on a space X and a constant function, then X is contractible. A fibration is a map that satisfies a lifting property of these functions with respect to any space. These functions are used to define an equivalence relation on loops whose equivalence classes are members of the fundamental group. For two spaces X and Y and two functions f and g both from X to Y , one of these functions is defined from $[0, 1]$ to Y such that it agrees with " f of x " at " x comma zero" and agrees with " g of x " at " x comma one." For 10 points, name these functions that define an equivalence between topological spaces that is weaker than the notion of homeomorphic spaces.

ANSWER: **homotopies** [or **homotopy**; accept **homotopic** equivalence or **homotopy** equivalence or **homotopy** equivalent; accept **homotopy** lifting property; accept **homotopy** extension property; accept null-**homotopic**; accept **homotopy** group] (The first sentence refers to the fact that CW pairs have the homotopy extension property.)
<Other Science>

20. The mysterious "11 words" of these things have been a fixation of John Prados. Circuit Judge Roger Robb compared these things to a "swarm of bees" and admonished Erwin Griswold for effectively asking him to "ride herd" on them. Linda Amster, Betsy Wade, and Linda Charlton all received no public credit for a task involving these things since their superiors claimed not to want women to go to jail. Before a meeting of the Subcommittee on Buildings and Grounds, Senator Mike Gravel ("gruh-VELL") read these things into the public record as part of a filibuster against renewing the draft. The RAND Corporation composed these things on the orders of Robert McNamara. Henry Kissinger dubbed a person "the most dangerous man in America" for leaking these things to the press. For 10 points, name this set of documents released by Daniel Ellsberg that unveiled government lies about the scope of the Vietnam War.

ANSWER: **Pentagon Papers** [or **Report of the Office of the Secretary of Defense Vietnam Task Force**] (The "11 words" made up the only phrase set to be redacted from the public release of the *Pentagon Papers* in 2011, so when the full public release had no redacted material, Prados attempted to determine what that phrase would have been.)
<American History>

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BONUSES

1. Though some scholars argue that this work was a preparatory sketch for a never-finished painting, its blue wash background was likely intended to resemble architectural drawings. For 10 points each:

[10h] Name this silverpoint-on-panel drawing by Jan van Eyck that depicts the title saint reading and holding a large quill pen in front of an elaborate architectural scene.

ANSWER: *Saint **Barbara***

[10e] Jan van Eyck's interest in architectural drawings is also evidenced by the Gothic building in the background of the "adoration of the lamb panel" of his altarpiece named for this city.

ANSWER: **Ghent** [or **Gent**; or **Gand**; accept **Ghent Altarpiece**]

[10m] Reflectography has revealed that van Eyck removed a large coin purse that this man was wearing in the underdrawing of a painting that depicts him sitting in a loggia opposite the Virgin Mary being crowned by an angel.

ANSWER: Chancellor **Rolin** [or Nicolas **Rolin**; accept *Madonna of Chancellor **Rolin***; prompt on chancellor]
<Painting & Sculpture>

2. Although these analyzers were invented in the 1940s, they were worthless until soft ionization techniques like MALDI ("MAWL-dee") became popular in the 2000s. For 10 points each:

[10m] Name these mass analyzers that excite all fragment ions to the same kinetic energy and then measure their velocities over a fixed linear distance.

ANSWER: **time-of-flight** mass analyzers [or **TOF** mass spectrometry]

[10e] For every fragmented ion, the measured time-of-flight is used to compute the ratio of the ion's mass to this quantity.

ANSWER: **charge** [accept mass-to-**charge** ratio or *m-over-z*]

[10h] TOF ("toff") analyzers are also used by materials scientists as detectors for this technique. This technique uses a charged microscope tip to ionize a surface and detect its molecular composition with excellent spatial resolution.

ANSWER: **atom probe** tomography [or **APT**; prompt on tomography]
<Chemistry>

3. In an interlude, a member of this family named Old Jolyon dies under an old oak tree. For 10 points each:

[10h] Name this family that includes a solicitor who wants to move his wife Irene into a house on Robin Hill to isolate her from her friends.

ANSWER: **Forsyte** family

[10m] This author modeled Irene in his series *The Forsyte Saga* on his wife Ada.

ANSWER: John **Galsworthy**

[10e] Ada Galsworthy translated Guy de Maupassant's ("ghee duh moh-pah-SAWN's") stories into English with the assistance of this author. John Galsworthy was a good friend of this author of *Lord Jim*.

ANSWER: Joseph **Conrad** [or Józef Teodor Konrad **Korzeniowski**]
<British Literature>

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4. The second of this book's two chapters on "spiritual violence" discusses "the misery of not being a cause" and "the misery of not feeling entitled to one's misery." For 10 points each:

[10h] Name this book that blames "managerial feudalism" for the proliferation of groups like "goons" and "duct tapers."

ANSWER: **Bullshit Jobs** [or **Bullshit Jobs: A Theory**]

[10m] *Bullshit Jobs* was written by this anthropologist, whose books *The Dawn of Everything* and *Pirate Enlightenment* were published after his 2020 death.

ANSWER: David **Graeber** [or David Rolfe **Graeber**] (David Wengrow co-authored *The Dawn of Everything*.)

[10e] A Graeber essay is titled for "fragments" of an approach to anthropology named for this political position. A founder of this position, Pierre-Joseph Proudhon ("proo-DAWN"), declared that "property is theft!"

ANSWER: **anarchism** [or **anarchy**; accept *Fragments of an Anarchist Anthropology*]

<Social Science>

5. Margaret Palmer and Emily Bernhardt proposed five rules for achieving this task in river ecosystems after analyzing 37,000 projects in the NRRSS. For 10 points each:

[10m] Name this practice of trying to help an ecosystem recover. For rivers, this process may involve dam removal to reestablish historical flow regimes.

ANSWER: ecological **restoration** [or **restoring** or word forms of **restore**; accept river **restoration**; prompt on **rewilding**]

[10h] This phenomenon, in which community composition depends on colonization order, affects restoration success. Tadashi Fukami showed that this phenomenon can lead to either alternative stable or transient states.

ANSWER: **priority effects**

[10e] In this model of competition named for two scientists, priority effects arise when each species has more negative effects on the other than on itself. This model shares its name with a similar set of equations modeling predation.

ANSWER: **Lotka–Volterra** competition model [or competitive **Lotka–Volterra** equations]

<Biology>

6. One of these instruments likely appears in Dacian ("DAY-shun") hands on the base of Trajan's column. For 10 points each:

[10h] Name this long, trumpet-like instrument that was topped with the head of an animal like a boar. Iron Age Celts held this instrument upright to play in battle, including at Telamon, where the great din scared the Romans.

ANSWER: **carnyx** [or **carnyces**]

[10m] The *carnyx* emerged in this continental Celtic Iron Age material culture, which followed the Hallstatt. Greek and Italian objects inspired vegetal motifs on artifacts from this culture, which is named for a type-site in Switzerland.

ANSWER: **La Tène** ("la ten") culture [accept **La Tène** C culture; reject "Tène"]

[10e] Three *carnyx* players appear on the Gundestrop cauldron next to a scene showing the sacrifice of this animal. Shrines to Mithras center on images showing this animal's sacrifice in the "tauroctony."

ANSWER: **bulls** [or **cows**, **cattle**, **bullocks**, **calf**, **calves**, or **oxen**; accept **bovines** or **bovids**]

<Other History>

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7. In Clare Cavanagh's translation of a poem in this language titled "Map," the author claims to like the title objects "because they give no access to the vicious truth." For 10 points each:

[10m] Name this language used by the Nobel-Prize-winning poet of the collections *Salt* and *Nothing Twice*. Robert Hass translated "A Song on the End of the World" from this language to English.

ANSWER: **Polish** [or **polski**] (The poets are Wisława Szymborska and Czesław Miłosz.)

[10h] Cavanagh's translation of this author's poem "Try to Praise the Mutilated World" was printed on the back page of *The New Yorker* after 9/11. This member of Poland's Generation of '68 died in 2021.

ANSWER: Adam **Zagajewski** ("zah-gah-YEV-skee")

[10e] Cavanagh's essay "The Art of Losing" pushes back against the desire for literal translations using the example of a Polish translation of this American poet's villanelle "One Art."

ANSWER: Elizabeth **Bishop**

<European Literature>

8. This method is named for a man who founded a law firm that paid two million dollars to Juan Rivera after DNA evidence caused the then-largest wrongful conviction lawsuit in US history in 2004. For 10 points each:

[10h] Name this interrogation method. The posing of alternative questions on a presumption of guilt as part of this method has been criticized for causing a high rate of false confessions.

ANSWER: **Reid** technique [or **Reid** method; or **Reid** interrogation; accept John E. **Reid**]

[10e] Ava DuVernay's documentary *When They See Us* blamed the Reid technique for the false confessions of these New York youths falsely convicted of raping Trisha Melli in 1989.

ANSWER: **Central Park Five** [or **Exonerated Five**]

[10m] The Reid technique emerged after the Wickersham Report, which was largely written by this man, had discouraged "third degree" police torture. This Berkeley professor is called the "father of modern policing."

ANSWER: August **Vollmer**

<Other Academic>

9. The origins of Raksha Bandhan can be traced to a fictitious anecdote of Rani Karnavati of Mewar sending for aid from a holder of this title before self-immolating, with help arriving too late. For 10 points each:

[10e] Name this title held by Humāyūn. At the 1527 Battle of Khanwa, Rana Sanga of Mewar led an alliance of North Indian states against an invasion by Bābur, who held this title.

ANSWER: **Mughal emperor** [accept **king**, **shāh**, **shāh**anshāhān, or **pādshāh** in place of "emperor"; accept **Mogul** in place of "Mughal"; prompt on **emperor**, **king**, **shāh**, **shāh**anshāhān, or **pādshāh**]

[10m] The anti-Mughal alliance led by Rana Sanga is often referred to as a "confederacy" of these "princes" who ruled a number of Hindu states before the Muslim conquests of the northern subcontinent.

ANSWER: **Rajputs** [or **raja-putras**; accept **Rajput** confederacy; accept **Rajputana**]

[10h] This other queen of Mewar legendarily self-immolated to avoid marrying the Sultan of Delhi Alaud-Dīn Khaljī, an encounter memorialized by Malik Muhammad Jayasi in an Awadhi-language epic.

ANSWER: Rani **Padmini** [or **Padmavati**; accept **Padmavatī**]

<World History>

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10. This phrase originates from the continued usage of the term “na” to refer to a country whose name translates to the “borderlands” as a territory instead of “v” (“vuh”) to designate it as a nation-state. For 10 points each:

[10h] Give this English phrase, a correction to which is the first correction listed by the #CorrectUA (“hashtag Correct U-A”) movement.

ANSWER: **The Ukraine** [or descriptions like “**Ukraine** with **The** before it”; prompt on **The** by asking “In front of what word?”]

[10e] Karelian people have tried to correct the repetitive addition of the Russian word “Ozero” (“OH-zih-ruh”) to these geographic features, like Ladoga near Saint Petersburg.

ANSWER: **lake** [accept **Lake** Ladoga]

[10m] Members of this ethnic group have criticized the translation of Yamantau in the Urals as being “Mount Evil Mountain” in Russian. Ufa (“UH-fuh”) is the capital of a republic named for these descendants of the Kipchaks who appear in Leo Tolstoy’s story “How Much Land Does a Man Need?”

ANSWER: **Bashkirs** [or **Basqorttar**; accept **Bashkortostan**; accept **Bashkiria**]

<Geography>

11. Saint Paul, Minnesota, was once known as Pig’s Eye due to Pierre Parrant establishing one of these businesses in the Fountain Cave. For 10 points each:

[10e] Name these businesses in the Wild West opposed by a “League” led by Wayne Wheeler and Pussyfoot Johnson that succeeded the Women’s Christian Temperance Movement.

ANSWER: **saloons** [accept Anti-**Saloon** League; prompt on **bars**; prompt on **casinos**; prompt on **opium dens**; prompt on **brothels**]

[10h] Because of its Bengal tiger imagery, saloons and gambling houses for this card game in the West were nicknamed “tiger alleys.” Widespread cheating in this game led to the rise of poker.

ANSWER: **faro** [or **pharaoh** or **pharaon** or **farobank**]

[10m] This pioneer’s 1867 death, allegedly at the hands of the Blackfeet, may have been a murder due to his womanizing in saloons. Red Cloud’s War began over a trail named for this pioneer between Virginia City and Fort Laramie.

ANSWER: John **Bozeman** [or John Merin **Bozeman**; accept **Bozeman** Trail]

<American History>

12. This air filter standard uses a most penetrating particle size of 0.3 microns. For 10 points each:

[10e] Name this air filter standard whose performance can be approximated with MERV (“merv”) filters in HVAC (“H-vack”) systems that cannot meet its pressure requirements.

ANSWER: **HEPA** (“HEH-pah”) filter [or **high-efficiency particulate air** filter; or **high-efficiency particulate absorbing** filter; or **high-efficiency particulate arrestance** filter]

[10h] This air filter is built with a box fan, duct tape, cardboard, and MERV filters. It was designed during the COVID-19 pandemic by the CEO of Tex-Air Filters after he was introduced to a UC Davis Dean’s idea.

ANSWER: **Corsi**–Rosenthal **box** [or **Corsi box**; or **Corsi**–Rosenthal **cube** or **Corsi cube**; or **Compartetto cube**; prompt on **CRB** or **CR box**]

[10m] Research done by this chemist at the behest of the U.S. Army Chemical Corps determined the most penetrating particle size used in the HEPA standard. This chemist’s work on surface chemistry netted him a 1932 Nobel Prize, and he also names the American Chemistry Society’s journal on surfaces and interfaces.

ANSWER: Irving **Langmuir**

<Other Science>

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13. This thinker discussed narrative as a “socially symbolic act” in his book *The Political Unconscious*. For 10 points each:

[10m] Name this philosopher and literary critic who analyzed the Westin Bonaventure Hotel and van Gogh’s painting of peasant shoes in a book that opens by describing an “inverted millenarianism.”

ANSWER: Fredric **Jameson**

[10e] That book is about this period and artistic trend that Jameson calls “the cultural logic of late capitalism.”

ANSWER: **postmodernism** [reject “modernism”]

[10h] *The Political Unconscious* opens with this two-word slogan, which Jameson calls “the one absolute... imperative of all dialectical thought.”

ANSWER: **Always historicize!**

<Philosophy>

14. A black Parachute Cargo Bomber created by this fashion designer was worn by a dripped-out Robin Williams to the premiere of *Flubber*. For 10 points each:

[10h] Name this designer of Bao Bao handbags who created the fashion lines Pleats Please and A Piece of Fabric. Steve Jobs’s turtlenecks were designed by this man, whose brand sells a perfume called “L’eau de” (“low duh”) his name.

ANSWER: Issey **Miyake** [prompt on **Issey**] (*L’Eau de Issey* is a pun on the word “odyssey.”)

[10m] This model and singer wore a vinyl bustier (“boo-stee-ay”) designed by Miyake while touring her 1981 album *Nightclubbing*; its cover shows this Jamaican-American artist with a flat-top haircut, exemplifying her androgynous style.

ANSWER: Grace **Jones** [or Grace Beverly **Jones**]

[10e] Many of Miyake’s designs incorporate overlapping pieces of fabric, inspired by this robe, the traditional costume of Japan.

ANSWER: **kimono**

<Other Fine Arts>

15. Computational fluid dynamics algorithms for this type of flow must modify basic finite difference methods to prevent the pressure field from oscillating. For 10 points each:

[10m] Name this type of flow whose Mach (“mahk”) number is at or below 0.3.

ANSWER: **incompressible** fluids [or **incompressible** flows; or **incompressibility**; prompt on **subsonic** fluids or flows]

[10h] The SIMPLE algorithm for incompressible flow uses a staggered grid that calculates pressure at the center of these theoretical structures, while calculating velocity and momentum on their faces. The conservation of the variable of interest within these theoretical structures is expressed by the discretization equation.

ANSWER: **control volumes** [or **cells**; or **finite volumes**; prompt on **volumes** or finite **elements**; reject “fluid parcels”]

[10e] The methods based on this quantity for compressible flows are replaced by pressure-based methods for incompressible flows. The buoyant force equals this quantity times “little g” times displaced fluid volume.

ANSWER: mass **density** [or fluid **density**; prompt on **rho**]

<Physics>

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16. An Earle Birney poem titled for a verb form of this place describes how “owls in the beardusky woods derided” the speaker. For 10 points each:

[10e] Name this type of place that alliteratively names a genre of ballads by Banjo Paterson, such as “Waltzing Matilda.”

ANSWER: the **bush** [accept Australian **bush** or Canadian **bush**; accept “**Bushed**”; reject “outback”]

[10m] This critic theorized a “garrison mentality” centered on a national fear of a hostile landscape in the book *The Bush Garden*. A book by this literary critic articulates theories of modes, symbols, myths, and genres.

ANSWER: Northrop **Frye** [or Herman Northrop **Frye**] (The second book is *Anatomy of Criticism*.)

[10h] This person says, “anything planted here / would come up blood” in “dream 1: the bush garden,” part of a poetry collection inspired by this person’s journals. This writer described the difficulties of living in the Canadian wilderness in the memoir *Roughing It in the Bush*.

ANSWER: Susanna **Moodie** [or Susannah **Strickland**; accept *The Journals of Susanna **Moodie***] (Margaret Atwood wrote *The Journals of Susanna Moodie*.)

<World Literature>

17. London’s police force did not fully probe the murder of Stephen Lawrence, a youth whose parents were from this region. For 10 points each:

[10e] Name this transnational region that half a million “Windrush Generation” immigrants left for Britain. C. L. R. James’s *The Black Jacobins* details an event in this region.

ANSWER: the **Caribbean** [or **West Indies**; or **Windies**; prompt on Jamaica, Haiti, Trinidad, Tobago, or Trinidad and Tobago by asking “what transnational region is that a part of?”]

[10h] This man backed Windrush immigrants while leading the opposition to Anthony Eden’s government. A surprise election loss to Harold MacMillan led this man to try to remove Clause 4, which urged common ownership of industry, from Labour’s constitution.

ANSWER: Hugh **Gaitskell** [or Hugh Todd Naylor **Gaitskell**]

[10m] The Windrush generation and Communist activist Claudia Jones brought a big carnival to this London neighborhood. False assault accusations against Raymond Morrison caused a set of 1958 riots in this neighborhood.

ANSWER: **Notting Hill** [accept **Notting Hill** Carnival; accept **Notting Hill** riots]

<European History>

18. *Two answers in the original language required.* In a *khutba* addressed to the “*ghuraba*,” or the strangers, Ghazala Anwar argues for a genderfluid reading of Allah using these two names. For 10 points each:

[10m] Give these *two* most frequently-invoked names of Allah whose common trilateral root also forms the Arabic words for “womb” and “mother’s love.”

ANSWER: ar-**Rahman** AND ar-**Rahim** [accept answers in either order; accept al-**Rahman** AND al-**Rahim**; prompt on Most Gracious AND Most Merciful] (“Womb” in Arabic is *rahm*; “mother’s love” is *rahmah*.)

[10h] Anwar argues for the porosity of gender difference using this thinker’s concept of *barzakh*. This scholar held that “humanity unites male and female, and in it maleness and femaleness are contingencies, not a human reality.”

ANSWER: **Ibn ‘Arabī** [or **al-Qushayri**; or Abū ‘Abdallāh Muḥammad ibn ‘Alī **ibn al-‘Arabī** al-Tā’ī al-Ḥātimī; accept **ash-Shaykh al-Akbar**; reject “‘Arabī” alone]

[10e] Anwar holds that practicing Islam guided by divine *rahma* makes one part of the *ghuraba*, whose strangeness she links to a theory named for this term. That theory named for this term studies deviations from heteronormativity.

ANSWER: **queer** [accept **queer** theory]

<Religion>

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19. This composer used a contrabassoon over a piano and harpsichord accompaniment for the theme of the *Waltz* movement of his *Gogol Suite*. For 10 points each:

[10h] Name this composer whose advocate Gidon Kremer recorded his controversial modernist cadenzas for Beethoven's Violin Concerto. The Preludio first movement of a double violin concerto by this composer opens with a passage for piano prepared with kopeks.

ANSWER: Alfred **Schnittke** [or Alfred Garrievich **Schnittke**] (The piece is his Concerto Grosso No. 1.)

[10e] *Two answers required*. A work for two violins and orchestra by Schnittke puns on the name of these two composers, the most prominent of the Classical era. Along with Beethoven, they made up the First Viennese School.

ANSWER: Joseph **Haydn** AND Wolfgang Amadeus **Mozart** [accept Franz Joseph **Haydn** in place of "Joseph Haydn"] (The piece is *Moz-Art à la Haydn*.)

[10m] This Russian symphony earned its nickname "Classical" by mimicking many tropes of the Classical period, particularly those of the Mannheim School. You must give the composer and either the number, key, or opus number.

ANSWER: Sergei **Prokofiev**'s Symphony No. **1** [accept in **D major** or Op. **25** in place of "No. 1"]

<Classical Music>

20. *Description acceptable*. An elegy for this person tells her, "If you're reading this then you survived your life into this one if / you're reading this then the bullet doesn't know us / yet." For 10 points each:

[10h] Identify this person, the addressee of a letter that recalls her time working in a nail salon. That letter ends with the narrator seeing monarch butterflies in a field and asking this person why she wasn't trampled by buffaloes.

ANSWER: Ocean **Vuong's mother** [or **Lê Kim Hồng** or Rose **Lê**; accept **Little Dog's mother** or the **mother from On Earth We're Briefly Gorgeous** or equivalents; accept "Dear **Rose**"; prompt on **mother**; reject "Vuong"]

[10e] This author's *Mourning Diary* inspired both Vuong's letter and the epigraph of his elegy. This theorist wrote "The Death of the Author."

ANSWER: Roland **Barthes** ("ro-LAWN bart") [or Roland Gérard **Barthes**]

[10m] Vuong sees his father chase his mother in a poem noting "Everyone's here," which inverts a line from this poem. "A red fox stain covers Blue Hill" in this poem in which a car radio bleats, "Love, O Careless Love."

ANSWER: "**Skunk Hour**" (by Robert Lowell; the Vuong poem is "The Last Prom Queen in Antarctica")

<American Literature>