2022 ACF Fall

Packet M by Editors

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Tossups

1. Annually documenting this building's "Square Room" was the first use for *livret* catalogs. In 1992, Veronese's *Marriage at Cana* was dropped and punctured in this building during a restoration attempt. A garden adjacent to this building contains the Orangerie, which houses eight of Monet's *Water Lilies*. This building's sky-lit Daru staircase separates the Sully and Denon Wings. Among the large paintings displayed in this building's Red Rooms is *The Raft of the Medusa*. Women rejected from the École des Beaux-Arts often worked by copying paintings in this building, such as Delacroix's *Liberty Leading the People*. For 10 points, name this Parisian art museum that houses the *Mona Lisa*.

ANSWER: <u>Louvre</u> Palace [or Palais du <u>Louvre</u>; accept <u>Louvre</u> Museum or Musée du <u>Louvre</u>] <Painting/Sculpture>

2. Some species of these animals link their bodies to create bivouacs ("BIH-voo-aks"), a type of temporary protective structure. When some of these animals lose track of direction, they walk in circles en masse, forming a "death spiral." A genus of these animals gathers to form watertight "rafts" with their bodies and is named after its painful bite. Some of these animals can use their abdomens to spray the simplest carboxylic ("car-box-ILL-ick") acid, which is named after them. These animals include sterile, wingless "workers" as well as bulkier "soldiers" that defend the colony. For 10 points, name these eusocial insects of the family Formicidae ("for-MISS-ih-day"), which include "army" and "fire" species.

ANSWER: <u>ant</u>s [accept army <u>ant</u>s; accept fire <u>ant</u>s; accept wood <u>ant</u>s; accept <u>Formicidae</u> until read; prompt on <u>insects</u> or <u>Insecta</u> until "insects" is read; prompt on <u>formic</u> acid by asking "what kind of animal is it named for?"] <Biology>

3. A diplomat who mostly worked in this profession earlier in life served as U.S. ambassador to Czechoslovakia during the Prague Spring. To protest the occupation of Wounded Knee, Sacheen Littlefeather declined an award on behalf of a member of this profession. A man who had this non-political profession first gained national political prominence after giving the "A Time for Choosing" speech for Barry Goldwater's campaign. To impress a member of this profession, John Hinckley attempted to assassinate Ronald Reagan, who had himself worked in this profession before becoming a politician. For 10 points, name this profession held by Jodie Foster and Marlon Brando.

ANSWER: actor [or actress; prompt on singer or dancer or performer or director by asking "What was their primary profession?"] (The first sentence refers to Shirley Temple.)

<American History>

4. A festival that was split into "Rural" and "City" components featured works in this medium, which often contain a debate known as the *agon*. Part of a work in this medium whose title can be translated as *Trackers* was discovered among the Oxyrhynchus Papyri ("ock-sih-RING-kuss puh-PAI-rai"). A genre of this medium should take place over a single day and in the same physical place according to two of the three "classical unities," which were observed by authors like Jean Racine ("zhawn ruh-seen"). Works in this medium often feature dancing and singing from a chorus that comments on the proceedings. For 10 points, ancient Greek authors like Euripides worked in what medium that includes tragedies and comedies?

ANSWER: <u>theater</u> [or <u>drama</u>; or <u>play</u>s; accept <u>tragedies</u> or <u>comedies</u> until each is read; accept satyr <u>play</u>s] <World/Other Literature>

5. Stephen Kleene introduced a thesis named for this scientist and an advisor that equates classes of computable functions. The busy beaver problem seeks to maximize the output of constructs named for this scientist, which include a set of transition functions, accepting states, and a head. Like Alonzo Church's lambda calculus, any algorithm can be encoded on an infinite tape known as this scientist's namesake "machines." This scientist proposed a namesake test that he called the "imitation game" to distinguish between humans and artificial intelligence. For 10 points, name this British mathematician who cracked the Enigma code.

ANSWER: Alan <u>Turing</u> [accept <u>Turing</u> test; accept <u>Turing</u> machines; accept Church—<u>Turing</u> thesis] <Other Science>

6. At the end of this play, a man who jokes that he is descended from the "horse that Caligula made a senator" is ecstatic that white clay has been found on his land. A character in this play misquotes Hamlet to avoid addressing his refusal to propose to a woman who throws her ring of keys to the ground upon hearing the results of an auction on August 22nd. A woman in this play tears up telegrams from a lover in Paris, where she fled after the drowning of her seven-year-old son Grisha. At the end of this play, the servant Firs is left alone to the sound of ax chops. For 10 points, Lopakhin buys Madame Ranevskaya's estate in what play by Anton Chekhov?

ANSWER: The <u>Cherry Orchard</u> [or <u>Vishnyovyi Sad</u>]

<European Literature>

7. To avoid this interval, a German augmented sixth chord typically resolves to a cadential 6-4 ("six-four") chord, rather than to the dominant. Pythagorean tuning relies on fixing this interval to a frequency ratio of 3:2 ("three-to-two"). This interval separates the first and second overtones above the fundamental. It's not the octave, but common practice period music prohibits the repeated use of this interval in counterpoint, which is called "parallel." This interval is one half step larger than a tritone. To illustrate their relationships, this interval separates the 12 chromatic notes or key signatures in a "circle" of notes. For 10 points, name this perfect interval between the tonic and dominant, for example from C to G.

ANSWER: perfect <u>fifth</u> [accept circle of <u>fifth</u>s; reject "diminished fifth" or "augmented fifth"] <Classical Music>

8. In Incan myth, the puma brings souls to one of these animals that regularly traverses the Hanan Pacha. Algonquian legends describe a massive one of these animals with flashing eyes that feuds with the whale. Fallen warriors believed to be these animals served Huītzilōpōchtli ("weet-zee-loh-POACH-tlee"), who was depicted as one of them "on the left." A snow-white one of these animals hung up the sun, moon, and stars before turning black; that one of these animals is a trickster god of the Pacific Northwest. Legendarily, Tenōchtitlan was built where one of these animals was seen eating a snake on top of a cactus. For 10 points, the quetzal ("ket-sahl") is what type of animal, whose features are possessed by the serpent god Quetzalcōātl ("ket-sahl-KOH-ah-tull")?

ANSWER: <u>bird</u>s [or <u>avian</u>s or <u>Aves</u>; accept <u>eagle</u> or <u>raptor</u> or <u>bird</u> of prey; accept <u>raven</u> or <u>crow</u> or <u>corvid</u>; accept humming<u>bird</u>; accept thunder<u>bird</u>; accept <u>condor</u>]
<Mythology>

9. This thinker theorized that white and Black people in the South defined themselves as opposites in a collaboration with James Baldwin titled *A Rap on Race*. A study by this thinker was criticized by Derek Freeman in a book titled for her "Fateful Hoaxing." This anthropologist reported that women were dominant and men were emotional among the Chambri people in a book that also analyzed the Biwat and Arapesh. Another book by this thinker concludes that in the Manu'a Archipelago, girls' access to the adult world made their adolescence less difficult than in Western society. For 10 points, name this Columbia anthropologist who wrote *Sex and Temperament in Three Primitive Societies* and *Coming of Age in Samoa*.

ANSWER: Margaret Mead

<Social Science>

10. A series of 21st century "missions" named for this leader include Mission Robinson, which seeks to promote literacy. An assassination attempt against this leader as part of the Septembrine Conspiracy was foiled with the help of Manuela Sáenz ("SIGNS"). This leader won a battle at Vargas Swamp and then joined forces with Francisco Santander during the Battle of Boyaca. During the Guayaquil Conference, this leader met with José de San Martín. The viceroyalty of New Granada gained independence thanks to the efforts of this leader, who served as the first President of Gran Colombia. For 10 points, name this "Libertador" who helped much of South America gain independence from the Spanish.

ANSWER: Simón <u>Bolívar</u> [or Simón José Antonio de la Santísima Trinidad <u>Bolívar</u> y Palacios; accept <u>Bolivar</u>ian missions; prompt on El <u>Libertador</u> until read] (The first line refers to programs instituted by Hugo Chávez.) <World History>

11. In an essay by this author, the title entity is a unity within which "every man's particular being is contained and made one with all other." In another essay, this author describes how man can only achieve true solitude by leaving society and its worries and going out into the title location. Another essay by this author claims that "a foolish consistency is the hobgoblin of little minds." That essay by this author promotes "individualism, personal responsibility and nonconformity." For 10 points, name this transcendentalist author and friend of Henry David Thoreau who wrote "Nature" and "Self-Reliance."

ANSWER: Ralph Waldo **Emerson**

<American Literature>

12. This philosopher acknowledged his intellectual forefathers by calling himself a transmitter and not an innovator. Wisdom was defined by this philosopher as discerning between trustworthy and untrustworthy people. This philosopher said that the most important thing a ruler can do is to correct their mistakes, thus inspiring trust. A text by this philosopher claims that the key to ensuring civic stability is making sure that children respect their parents. This philosopher believed that those who "do not do to others what you would not have done to yourself" exhibited *rén*. For 10 points, name this philosopher who is the subject of the *Analects*, the central text of his namesake school of Chinese philosophy.

ANSWER: <u>Confucius</u> [or <u>Kŏng</u> Fūzǐ; or <u>Kŏng</u>zǐ; or <u>Kŏng</u> Qiū; or <u>Zhòngní</u>; accept <u>Confucian</u>ism] <Philosophy>

13. In 1969, hundreds of works in this art form by James Van Der Zee were discovered for the Met retrospective "Harlem on my Mind." Over 500 early works in this medium appeared at MoMa's expansive *Family of Man* exhibit, which was curated by a man who also showcased works from this art form's "secession" movement. Weegee's "Distortions" series in this art form followed counterparts such as Brassai and the creator of *The Decisive Moment*. Works in this art form were showcased in the 291 Gallery. A gangway separates upper and lower class passengers of the SS Kaiser Wilhelm II in a work in this art form titled *The Steerage*. For 10 points, name this art form practiced by the New York-based artists Diane Arbus and Alfred Stieglitz.

ANSWER: **photo**graphy [or word forms like **photo**graphs; accept **Photo**-Secession; prompt on <u>picture</u>s or taking <u>picture</u>s]

<Other Fine Arts>

14. The reign of a ruler of this kingdom is examined in a book by the Annales ("ah-NAHL") School historian Fernand Braudel titled for *The Mediterranean and the Mediterranean World* during his reign. Henry Kamen criticized a historiographical trend that vilified one of this kingdom's institutions, known as its "Black Legend." While governing one of this kingdom's provinces, the Duke of Alba convened a "Council of Troubles" that was called the "Council of Blood" by the occupied territory. This kingdom governed the Netherlands during its "Golden Age," which is generally considered to have peaked during the reign of its ruler Philip II. For 10 points, Protestant propaganda attacked what kingdom's infamous Inquisition?

ANSWER: <u>Spain</u> [or Kingdom of <u>Spain</u> or Reino de <u>España</u>; accept <u>Spanish</u> Inquisition or Inquisición <u>española</u>; accept <u>Spanish</u> Black Legend or Leyenda negra <u>española</u>]
<European History>

15. The muddy upper portion of this river is joined with a smaller blackwater river at the Meeting of Waters. The Marañón ("mah-rah-nee-AWN") was the main candidate in a 20th-century dispute over the source of this river, which has no bridge crossings or dams. This river contains the largest population of a species of pink river dolphin known as the boto. This river provides access to the largest city unreachable by road, Iquitos. The capital of a state named for this river is Manaus ("mah-NOWSE"). A disputed claim ranks this river, rather than one in Africa, as the longest river in the world due to its source in the Peruvian Andes. For 10 points, name this South American river that runs through a vast rainforest.

ANSWER: <u>Amazon</u> River [or Río <u>Amazonas</u>] <Geography>

16. Buddhist meditation aims to cultivate this number of immeasurable virtues called brahmavihārās. Artha, or prosperity, is among this many Hindu goals of life called puruṣārthas. Vishnu's avatar Kalki will appear during the yuga of this number, which is the last period in Hinduism's cyclic concept of time. After leaving his palace, a son of Queen Māyā first experienced aging and death as part of this many sights. A set of this many teachings proposes that taṇhā and dukkha, or thirst and suffering, perpetuate the worldly cycle of saṃsāra. Brahma legendarily originated this number of varnas, or classes, in the caste system. For 10 points, give this number of Noble Truths in Buddhism. ANSWER: **four** [or **4**; accept **Four** Noble Truths or **catvāri** āryasatyāni] <Religion>

17. A "couple" between this element and copper is reacted with diiodomethane ("di-iodo-methane") to make the catalyst for the Simmons–Smith reaction. Due to its low standard reduction potential of –0.76 volts, pieces of this element are attached to ship hulls to act as sacrificial anodes. This element, iron, and sulfur are found in its primary ore, sphalerite ("SFAL-ur-ite"), which is also known as this element's "blende." Like titanium dioxide, the white-colored oxide of this element is used to block UV light in sunscreens. This element is used to coat steel in the process of galvanization. This metal is alloyed with copper to create brass. For 10 points, name this transition metal symbolized Zn ("Z-N").

ANSWER: <u>zinc</u> [accept <u>Zn</u> until read; accept <u>zinc</u> oxide; accept <u>zinc</u> blende] <Chemistry>

- 18. The Vikings established "longphorts" in this region as shoreline forts for their trade ships. An invasion of this region was led by Richard "Strongbow" de Clare, after which John Lackland was declared its first "Lord" despite only ruling the "Pale." This region's Latin name is Hibernia. After his predecessor's victory at the Battle of Tara, this region's High King Brian Boru died in battle while defeating a Viking coalition at the 1014 Battle of Clontarf. The *Annals of Ulster* chronicle this island's medieval history and the conflicts between its Gaelic inhabitants and English colonists. For 10 points, name this island where a medieval English colony was based in Dublin. ANSWER: **Ireland** [or **Éire** or **Airlann**; accept **Ulster** or **Ulaidh** until "Ulster" is read; accept **Hibernia** or Dominium **Hiberniae** until "Hibernia" is read; accept Lordship of **Ireland** or Tiarnas na h**Éire**ann or Seygnurie de **Hirlaunde**; accept **Munster** or **Mumhain**; prompt on British Isles]

 Other History>
- 19. This quantity is unusually large for the graviton because the stress—energy tensor is second-order. An unresolved "crisis" concerns the fact that this quantity for a proton is much larger than the sum of this quantity for its component quarks. A theorem that relates this quantity to a particle's statistics holds that bosons have integer values for this quantity, while fermions have half-integer values for it. The multiplicity of this quantity is maximized by Hund's rule, causing orbitals to be filled first by particles with the same sign for this quantity. For 10 points, name this intrinsic form of angular momentum, which can be plus one-half or minus one-half for an electron.

 ANSWER: **spin** [accept **spin** angular momentum; accept **spin** quantum number; accept **spin** multiplicity; accept proton **spin** crisis; prompt on <u>angular momentum</u> until read; reject "momentum"]

 <Physics>
- 20. In a story by this author, a gallery owner offers to buy a Chaïm Soutine painting tattooed on Drioli's skin. This author created a character who kills her husband and feeds the investigating officer the murder weapon, a frozen leg of lamb. A spoiled girl in a novel by this author throws a tantrum after being told that a trained squirrel is not for sale. Another of this author's characters becomes thin after falling into a chocolate river. In a novel by this author, Veruca Salt and Augustus Gloop are among the victims of a factory tour. For 10 points, name this British author who wrote about a lucky golden ticket winner in *Charlie and the Chocolate Factory*.

ANSWER: Roald <u>Dahl</u> (The first line refers to "Skin." The second line refers to "Lamb to the Slaughter.") <British Literature>

Bonuses

1. Answer the following about the influence of the Gordy family on music, for 10 points each.

[10e] Berry Gordy founded Motown Records in this city as a nod to one of this city's nicknames. Songs like "Stan" and "My Name Is" were created by a rapper from this city, Eminem.

ANSWER: **Detroit**, Michigan

[10m] A son and grandson of Berry Gordy formed this electronic dance music group, which often features a man in a golden robot head called "Shuffle Bot," presumably as a nod to the lyric "everyday I'm shufflin."

ANSWER: LMFAO

[10h] Another of Berry Gordy's sons, "Rockwell," became a one-hit wonder with this song, which claims that "when I'm in the shower, I'm afraid to wash my hair" because the singer "always feel[s] like" the title action is happening.

ANSWER: "Somebody's Watching Me" [accept "I always feel like somebody's watching me"] <Pop Culture>

2. Because the British lacked the forces to protect this city, Edward D'Olyey invited members of the Brethren of the Coast to defend it. For 10 points each:

[10h] Name this "wickedest city in the world," which was ravaged by an earthquake and tsunami in 1692. This city served as the home base for Christopher Myngs ("mings") and Henry Morgan.

ANSWER: Port Royal

[10m] After the 1692 earthquake, much of this island's economic activity moved from Port Royal to its present-day capital. Escaped slaves in this country formed refugee communities that fought in the Maroon Wars.

ANSWER: **Jamaica** [or **Jumieka**]

[10e] Port Royal served as a hub for these people, whose "Golden Age" began with the rise of buccaneering in the Caribbean. Port Royal may have been visited by one of these people who was known as Blackbeard.

ANSWER: <u>pirates</u> [or <u>corsairs</u> or <u>swashbuckler</u>s or <u>sea raider</u>s; accept <u>privateer</u>s; prompt on <u>sailors</u> or <u>seafarers;</u> prompt on <u>outlaws</u> or <u>mercenaries</u> or <u>criminals</u> or <u>raiders</u> or <u>similar</u>] < World History>

3. Answer the following about the kinematic ("kin-uh-matic") equations, for 10 points each.

[10m] One of the kinematic equations states that this quantity equals the product of average velocity and time. This path-independent quantity is equal to the change in position.

ANSWER: **displacement** [prompt on delta x]

[10h] Another kinematic equation sets displacement equal to [read slowly] the product of initial velocity and time, added to this multi-variable term. Give your answer in terms of acceleration and time.

ANSWER: 1/2 a t squared [or one-half times acceleration times the square of time]

[10e] The kinematic equations are independent of this quantity, a measure of inertia that is assessed using a balance. Its SI unit is the kilogram.

ANSWER: <u>mass</u> [prompt on <u>m</u>; reject "weight"] <Physics>

4. The fugue from this song appears as one of the "Symphonic Dances" for the musical it appears in. For 10 points each:

[10h] Name this song in which a gun is described as a "rocket in your pocket." In this song, a "boy, boy, crazy boy" is told to have the title attribute.

ANSWER: "Cool"

[10e] The song "Cool" appears in this *Romeo and Juliet*-inspired musical by Leonard Bernstein, which depicts the rivalry between the Puerto Rican Sharks and the Jets.

ANSWER: West Side Story

[10m] West Side Story also depicts this Cuban dance, whose name is shouted by the Sharks and Jets while they dance. The German singer Lou Bega sampled a song titled "[this dance] No. 5" on an album named for this dance.

ANSWER: mambo [accept "Mambo No. 5"; accept A Little Bit of Mambo]

<Other Fine Arts>

5. This philosopher accused Hobbes of preferring the predation of lions to that of foxes in a defense of the state of nature. For 10 points each:

[10e] Name this philosopher who argued that government exists to guarantee the rights of the people and that the people therefore have a right to revolt in his *Second Treatise on Government*.

ANSWER: John Locke

[10m] Robert Nozick coined the term "Lockean proviso" for Locke's theory that this concept arises from the mixing of land and labor. Along with life and liberty, Locke declared this right to be fundamental.

ANSWER: property

[10h] Locke's *First Treatise* points out that every human being is descended from Adam in order to rebut this idea, as put forward in Robert Filmer's *Patriarcha*.

ANSWER: <u>divine right of kings</u> [or descriptions such as that <u>God</u> gives <u>monarchs</u> a <u>right to rule</u>; prompt on <u>divine right</u> or the <u>divine</u> granting of political <u>power</u> or equivalents; prompt on justification of <u>monarchy</u> or <u>kings</u> or equivalents; prompt on <u>absolute</u> monarchy or <u>hereditary</u> monarchy]

<Philosophy>

6. This empire was founded by a branch of the Yuèzhī ("YOO-eh-juh") people who had migrated west after their defeat by Mòdú Chányú in the 170s BCE. For 10 points each:

[10h] Name this empire that peaked under King Kanishka the Great in the mid-100s CE. It was based in modern-day Afghanistan and Pakistan but stretched to the Tarim Basin and into the Gangetic Plain at its height.

ANSWER: Kushan Empire [or Kushana; or Guì-shuāng; reject "Kush"]

[10e] Kanishka's capital at Peshawar, east of the Khyber Pass between Afghanistan and Pakistan, helped the pass become a major part of this network. This trade network is named for the textiles that China exported through it.

ANSWER: Silk Roads [or Silk Routes; or Sīchóu zhī lù; accept Sīlù]

[10m] At its greatest extent, Kanishka's empire extended in its east to Pāṭaliputra, which had been the capital of this other empire. This empire became the first major Buddhist state when its ruler converted after the Kalinga War.

ANSWER: Maurya Empire [or Mauryan Empire] (The ruler was Ashoka.)

<Other History>

7. When this ailment afflicts a character, the knight Astolfo has to fly to the moon on Elijah's flaming chariot to retrieve a cure in the place where all lost things are found. For 10 points each:

[10h] Name this ailment that inflicts a character who teams up with Brandimarte and Oliver to fight Agramante.

ANSWER: <u>mad</u>ness [accept <u>insanity</u> or <u>frenzy</u> or <u>rage</u> or <u>fury</u>; accept *Orlando <u>furioso</u>* or *The <u>Frenzy</u> of Orlando or <u>Raging</u> Roland;* prompt on <u>anger</u>]

[10e] In another depiction titled for this type of action, Roland dies while blowing his horn Oliphant after being ambushed at Roncevaux ("roan-suh-voh") Pass. The chanson de geste ("shan-SOANN duh zhest") is named for being transmitted via this action by minstrels.

ANSWER: **sing**ing [or **song**s; accept *The* **Song** of Roland or La **Chanson** de Roland]

[10m] In *The Song of Roland*, one of these objects is said to contain various relics, including the tooth of Saint Peter. Roland hides one of these objects under his body along with his horn Oliphant after failing to break it on a rock.

ANSWER: **sword**s [accept **blade**s; accept **Durendal**; prompt on <u>weapons</u> or <u>arm</u>s] <European Literature>

8. Answer the following about calorimetry, for 10 points each.

[10e] Calorimetry determines this quantity by measuring how long it takes a substance to warm up. This quantity is the energy that must be added to raise the temperature by one degree.

ANSWER: **specific heat** [or specific **heat capacity**; accept molar **heat capacity**; prompt on **heat**]

[10m] A sample is combusted inside a hard container in this constant-volume form of calorimetry, which is often used to measure the energy content of food.

ANSWER: **bomb** calorimetry [accept **bomb** calorimeter]

[10h] Differential scanning calorimetry is often used to find the "transition temperature" named for this type of material, above which a substance becomes rubbery.

ANSWER: glass [accept glass transition temperature; prompt on amorphous materials]

<Chemistry>

9. This is the last book in a text whose authorship was conjectured by the outmoded documentary hypothesis. For 10 points each:

[10m] Name this book of the Bible in which its presumed author is recorded dying after climbing Mount Nebo and seeing the promised land. This book's presumed author is succeeded by Joshua, who names the following book.

ANSWER: <u>Deuteronomy</u> [or <u>Devarim</u> or <u>Dəbārīm</u>; or <u>Deuteronómion</u>]

[10e] The authorship of Deuteronomy and the rest of the Pentateuch ("PEN-tuh-t'yuke") is traditionally ascribed to this man. In the book of Exodus, this man raised his staff to part the Red Sea.

ANSWER: Moses [or Mūsā]

[10h] This rabbi and philosopher held that the Torah was divinely revealed to Moses as part of his 13 principles of faith. This rabbi wrote *The Guide for the Perplexed*.

ANSWER: <u>Maimonides</u> ("mai-MAHN-ih-deez") [or <u>Rambam</u> or <u>Moses ben Maimon</u>] <Religion>

10. Fermat's ("fair-MAH's") Principle of Least Time is the first physics concept understood by two of these beings nicknamed Flapper and Raspberry. For 10 points each:

[10e] Name these beings who communicate with Dr. Banks in Ted Chiang's short story "Story of Your Life." An invasion by these beings is central to *The War of the Worlds*.

ANSWER: <u>alien</u>s [or <u>extraterrestrial</u>s; or <u>ET</u>s; accept <u>heptapod</u>s; accept <u>Martian</u>s]

[10h] A Chinese-American sci-fi author of "The Paper Menagerie" with this last name invented the "silkpunk" genre. Another author with this last name wrote about a potential alien invasion in *The Three Body Problem*.

ANSWER: Liú [accept Ken Liú or Liú Yŭkūn; accept Liú Cíxīn or Cíxīn Liú]

[10m] A message is written on a paper one of these animals that comes to life in "The Paper Menagerie." A princess ambiguously points her lover towards a door in a Frank R. Stockton story titled "The Lady, or [this animal]."

ANSWER: tigers [or lăohŭ; accept "The Lady, or the Tiger?"; prompt on big cats or felines]

<American Literature>

11. This artist's habit of "skying" contributed to one of the first prominent uses of *en plein air* ("on plen air") painting with cloud-covered works like *Wivenhoe Park* and *Hadleigh Castle*. For 10 points each:

[10m] Name this artist who displayed three "six-footers" at the 1824 Paris Salon, including a painting of Willy Lott's cottage on the River Stour titled *The Hay Wain*.

ANSWER: John Constable

[10h] Through French salons, Constable's *en plein air* style caught on with nature painters from this realist school. This school's member Jean-François Millet ("mee-LAY") depicted struggling rural peasants in *The Gleaners* and *The Angelus*.

ANSWER: Barbizon school

[10e] Paintings by Constable and the Barbizon school belonged primarily to this genre that depicts vast views of scenery. In the U.S., *en plein air* painting was adopted by Hudson River School artists who worked in this genre.

ANSWER: <u>landscape</u>s [or <u>paysage</u>]

<Painting/Sculpture>

12. In a poem by this author that contemplates "this dark world and wide," the speaker concludes that "they also serve who only stand and wait." For 10 points each:

[10m] Name this author of a poem that opens "when I consider how my light is spent." Another work by this blind author is meant to "justify the ways of God to man."

ANSWER: John Milton

[10e] In this epic poem by Milton, Satan believes that it is "better to reign in Hell, than to serve in Heaven" and tempts Eve into sin.

ANSWER: **Paradise Lost**

[10h] Milton commemorated the drowning of Edward King as a "bitter constraint and sad occasion" in this poem, which commands, "Look homeward Angel now, and melt with ruth."

ANSWER: "Lycidas" <British Literature> 13. A governor from this family emerged as the vice presidential nominee at the controversial 1924 Democratic National Convention. For 10 points each:

[10m] Name this family that also included a man known as the "Boy Orator," who gave a speech at an earlier DNC that compared reliance on gold to a "crown of thorns."

ANSWER: <u>Bryan</u> [accept William Jennings <u>Bryan</u>; accept Charles <u>Bryan</u>] (The speech is the "Cross of Gold" speech.)

[10e] Charles and William Jennings Bryan represented this midwestern state, where the People's Party created their populist Omaha Platform.

ANSWER: Nebraska [or NE]

[10h] The "Cross of Gold" speech is said to have inspired this politician's slogan "Every Man a King." This populist proposed pensions and free college education as part of his "Share Our Wealth" program.

ANSWER: Huey **Long** [or Huey Pierce **Long**, Jr.; prompt on "the <u>Kingfish</u>"] <American History>

14. These organisms cover about six to eight percent of Earth's surface, largely in inhospitable places. For 10 points each:

[10m] Name these symbiotic organisms that contain a phycobiont ("FAI-koh-bai-ont") and a mycobiont ("MAI-koh-bai-ont"). They are often found growing on bare rocks or tree bark.

ANSWR: lichens ("LAI-kinz")

[10h] Lichens are among the first organisms to colonize newly exposed land during the initial stage of this process. This process was once thought to end with the formation of a "climax community."

ANSWER: ecological <u>succession</u> [accept primary <u>succession</u>]

[10e] Lichens consist of fungi and algae in this type of symbiotic relationship. Unlike in parasitism or commensalism, [emphasize] *both* organisms benefit from this type of relationship.

ANSWER: <u>mutual</u>ism [or word forms like <u>mutual</u>istic] <Biology>

15. Answer the following about variations composed by J.S. Bach, For 10 points each.

[10m] This set of G major variations was written for its eponymous harpsichordist to play when his patron, Count Keyserling, had insomnia. Glenn Gould burst into prominence with his 1955 performance of these variations.

ANSWER: Goldberg Variations

[10h] Many Baroque variation sets were in this Spanish dance form with a slow, triple-meter ostinato. This form, which is named for the Italian for "walking on the street," is exemplified by Bach's BWV 582 for organ, in C minor. ANSWER: **passacaglia** [prompt on translations like passacaille]

[10e] Bach wrote a massive D minor chaconne ("shah-KOAN"), another triple-meter Spanish dance form, for this solo instrument. This is the highest-pitched stringed instrument.

ANSWER: violin [accept fiddle]

<Classical Music>

16. The Quechua ("KETCH-oo-uh") people were the first to discover this treatment, which they derived from the bark of the cinchona ("sin-CHOH-nuh") tree. For 10 points each:

[10m] The discovery of what anti-malarial drug is cited by historians as one of the major reasons that European nations were able to expand their imperial ambitions in the 19th century?

ANSWER: quinine

[10e] Quinine was introduced to Europe by people with this occupation working for the Society of Jesus. Many members of the Jesuits converted people to Christianity while working in this occupation.

ANSWER: <u>missionaries</u> [or <u>missionary</u>; prompt on <u>priest</u> or <u>clergy</u>]

[10h] This country organized the Kina Bureau to control quinine production during the early 20th century. A trading company from this European country known as the VOC built Fort Zeelandia in Taiwan.

ANSWER: <u>Netherlands</u> [or <u>Nederlands</u>; or Kingdom of the <u>Netherlands</u> or Koninkrijk der <u>Nederlanden</u>; accept <u>Dutch</u> East India Company; prompt on <u>Holland</u>]

<European History>

17. The white-passing Morris offers to pretend to be his brother Zachariah when meeting a white penpal in this author's play *Blood Knot*. For 10 points each:

[10m] Name this author of a play in which Hally writes an essay on "Men of Magnitude." Sam and Willie ballroom dance at the beginning and end of that play by this author, *Master Harold... and the Boys*.

ANSWER: Athol Fugard [or Harold Athol Lannigan Fugard]

[10h] John and Winston rehearse *Antigone* ("ann-TIG-uh-nee") in a play named for one of these places by Fugard's Serpent Players. In a novel named for a "mysterious" one of these places, Captain Nemo reveals to Cyrus that he is Prince Dakkar.

ANSWER: <u>island</u>s [accept *The <u>Island</u>*; accept *The Mysterious <u>Island</u>* or *L'<u>Île</u> mystérieuse*] (Jules Verne wrote *The Mysterious Island*.)

[10e] In *The Island*, the production of *Antigone* is performed in one of these facilities. Edmond Dantès seeks revenge after being framed and spending six years in one of these facilities in *The Count of Monte Cristo*.

ANSWER: **prison**s [accept **jail**s; accept **penitentiarie**s; prompt on <u>fortress</u> or <u>castle</u> or <u>Château</u> d'If] <World/Other Literature>

18. Ilmarinen formed the sun and stars while attempting to craft the Sampo for one of these figures named Louhi who rules over the northern realm Pohjola ("PO-h'yo-lah"). For 10 points each:

[10e] What magical beings include the Slavic hag Baba Yaga, who flies around in a mortar rather than on the stereotypical broomstick?

ANSWER: witches [accept sorceresses or enchantresses; prompt on magicians or equivalents]

[10m] Ilarminen crafts the Sampo to marry Louhi's daughter in this epic. The 700-year-old bard Väinämöinen is born at the start of this epic poem after seven cosmic eggs burn the knee of his mother, the air spirit Ilmatar.

ANSWER: Kalevala

[10h] Ilmarinen's forging of the sun has been compared to the celestial blacksmith Svarog, a predecessor of this deity. This Slavic god of thunder causes the seasons to change by battling the underworld serpent Veles each year.

ANSWER: **Perun** < Mythology>

19. Efforts by grassroots groups like Gay Men's Health Crisis may have caused case numbers of this disease to recede in New York City starting in August 2022. For 10 points each:

[10m] Name this disease whose 2022 outbreak has mainly affected gay men. This disease's awareness campaigns have struggled to communicate that its transmission does not require sexual contact.

ANSWER: **monkeypox** [or **MPV**; or **Mpox**; or h**MPXV**]

[10e] GMHC's mission has included signing up residents to receive JYNNEOS, one of these things, as protection against monkeypox. Pfizer and Moderna are two producers of these things to protect against COVID-19.

ANSWER: vaccines [or vaccinations; prompt on inoculations; prompt on immunization]

[10h] GMHC's longer-term projects have included advocacy around access to this preventative treatment for AIDS. This treatment comes in pill form as Truvada and injection form as Apretude.

ANSWER: <u>PrEP</u> ("prep") [or <u>pre-exposure prophylaxis</u>]

<Current Events>

20. The Goldich dissolution series orders minerals by how easily they undergo this process. For 10 points each:

[10e] Name this process by which rocks are physically or chemically broken down. It is followed by erosion.

ANSWER: weathering [or being weathered]

[10m] This mineral is the most resistant to weathering in the Goldich dissolution series. This is the most abundant silicate mineral in Earth's crust.

ANSWER: quartz

[10h] Along with plagioclase feldspar, this is the most easily weathered mineral in the Goldich dissolution series. This mineral is the primary component of the upper mantle.

ANSWER: olivine ("olive-een")

<Other Science>