2022 ACF Fall

Packet K by Editors

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Tossups

1. This battle occurred at the mouth of the Spercheios River on the Malian Gulf. Aristodemus and Eurytus were struck blind at this battle, but since Eurytus fought anyway, Aristodemus became known as "the Coward" until his redemption at Plataea. Simonides's epitaph after this battle exhorts, "Tell them in Lacedaemon, passer-by, / That here, obedient to their word, we lie." After two days of inconclusive fighting at this battle, Ephialtes showed the attackers a secret path over the mountains, allowing the Persians to surround the united Greek army stationed at a narrow pass. This 480 BCE battle preceded the Battle of Salamis. For 10 points, name this battle at the "hot gates," where the Persian army was delayed by the sacrifice of Leonidas and his "300" Spartans.

ANSWER: Battle of <u>Thermopylae</u> ("therm-OP-ih-lee") <Other History>

2. A statistic whose name includes this function generalizes Student's *t* and is named for Hotelling. This function appears in the name of a distribution that, like the exponential distribution, is a specific case of the gamma distribution. Ordinary linear regression seeks to minimize the sum of the values of this function on the residuals. Karl Pearson proposed a goodness of fit test named for this function and the Greek letter chi ("kai"). This function on the correlation coefficient *r* gives the coefficient of determination. This function on the standard deviation gives the variance. For 10 points, name this function that multiplies a quantity by itself.

ANSWER: <u>square</u> [accept ordinary least <u>squares</u> or chi-<u>squared</u> distribution or Hotelling's *T*-<u>squared</u> distribution] <Other Science>

3. A controversial index of these systems published by the Economist Intelligence Unit uses a classification system that rates them as "flawed" or "full." The Amartya Sen essay *Poverty and Famines* theorized that these systems don't experience famines. Michael Doyle repopularized a theory initially proposed by Immanuel Kant that these systems are less likely to go to war. The elite theory of these systems discourages mechanisms such as referendums and town halls, which make these systems "participatory." For 10 points, name these political systems in which citizens can vote to determine the actions of the government.

ANSWER: <u>democracy</u> [or word forms like <u>democratic</u>; accept <u>democratic</u> peace theory; accept participatory <u>democracy</u>; accept <u>Democracy</u> Index; accept full <u>democracy</u> or flawed <u>democracy</u>; prompt on <u>political</u> systems or <u>government</u> until each is read]

<Social Science>

4. Traditional *raku* works in this art form employed sawdust to create random compositions. In keeping with *wabi-sabi*, those works in this art form were overlaid with gold or silver dust in the *kintsugi* technique. Egyptian faience was used to create early blue works in this art form, such as the Met Museum's William the Hippo. European factories replicated the "hard-paste" type of this art form by mixing bone ash with kaolin. İznik and Delft styles of this art form copied the use of cobalt blue from Chinese artisans. Many early masters of this art form employed coiling before throwing was developed using a namesake wheel. For 10 points, kilns are used to fire works in what clay-based art form?

ANSWER: **pottery** [or word forms such as **pot**s; accept **ceramic**s; accept hard-paste **porcelain**; accept **potter**'s wheel; prompt on <u>clay</u> until read]

<Painting/Sculpture>

- 5. To challenge state laws about this type of service, Bayard Rustin led the Journey of Reconciliation. The bombing of one of these services in Anniston on Mother's Day was condoned by Bull Connor. The group ROAR protested the integration of one of these services in Boston, whose integration was upheld in a case filed on behalf of James Swann in Charlotte. The arrest of Claudette Colvin while using one of these services preceded that of a secretary for the NAACP. Desegregating these services by using them to cross state lines was the goal of the Freedom Riders. For 10 points, the arrest of Rosa Parks began a Montgomery boycott of what transportation services?

 ANSWER: bus in Each public bus es or city bus or school bus accept Montgomery Bus Boycott; prompt on public transportation or mass transit until "transportation" is read]

- 6. In the first Hollywood film by a director from this country, the Man and the Wife reconcile in a crowded city street after he fails to drown her on their farm. Painted shadows and angled set designs were used in a 1920 film from this country that is partially set in Dr. Caligari's asylum. In a film from this country, plague-infected rats emerge from a dirt-filled coffin belonging to Count Orlok. The scientist Rotwang ("ROHT-vahng") plans to use a robot to destroy Metropolis in an early sci-fi film from this country's Expressionist cinema. Charlie Chaplin satirized a leader from this country as Adenoid Hynkel in *The Great Dictator*. For 10 points, the propaganda film *Triumph of the Will* was produced by what country's Nazi Party?

ANSWER: <u>Germany</u> [or Federal Republic of <u>Germany</u> or Bundesrepublik <u>Deutschland</u>; accept <u>Weimar</u> Republic or <u>Weimarer</u> Republik; accept Nazi <u>Germany</u> or <u>Third Reich</u> or <u>German</u> Reich or <u>Deutsches</u> Reich; accept <u>German</u> Expressionism or <u>Deutscher</u> Expressionismus]

<Other Fine Arts>

7. The addressee of a poem dedicated to this person is told to "Sing of the love we bore" this person. That poem dedicated to this person begins, "Hush'd be the camps to-day." The collection *Sequel to Drum Taps* includes a poem about this person that notes a "shy and hidden bird is warbling a song." In a poem describing a "great star early droop'd in the western sky," this person's coffin is offered "a sprig of lilac." Another poem describes this person "on the deck" where he has "fallen cold and dead." For 10 points, name this subject of Walt Whitman's "O Captain! My Captain!," which was written after this person was assassinated by John Wilkes Booth.

ANSWER: Abraham **Lincoln** (The unnamed poem is "When Lilacs Last in the Dooryard Bloom'd.") <American Literature>

8. As proof of Ekayāna, a text lists a "solitary" one of these figures as part of three devices that use *kaushalya*, or cleverness. Five-pronged *vajra* weapons allude to the wisdom of five of these figures called Tathāgata. A text promotes "infinite life" by reciting the name of one of these figures, Amitābha. Individuals are instructed to kill one of these figures in a popular Chinese koan ("KOH-ahn"). Legendarily, the Chán school originated from a holder of this title delivering the silent Flower Sermon. Deer Park is the site where a person with this title first taught about *dukkha* and *samsara*. For 10 points, what title did Siddhartha Gautama gain after achieving nirvana under the Bodhi tree?

ANSWER: **<u>Buddha</u>**s [accept **<u>Tathāgata</u>** until read; accept Pratyeka**<u>buddha</u>**yāna] <Religion>

9. This character inspired a novel about the French romance reader Arabella, which was written by Charlotte Lennox. Anselmo tells this character the story of a man who loses his wife after convincing his friend Lothario to seduce her. After leaving an inn without paying, this character's companion is thrown up in the air several times in a blanket. The novel *Galatea* is humorously spared when a priest and barber burn down this character's library. This character renames the village peasant Aldonza Lorenzo as the princess Dulcinea del Toboso. For 10 points, name this knight-errant who titles a picaresque novel by Miguel de Cervantes in which he mistakes windmills for giants. ANSWER: Don **Quixote** ("don kee-HO-tay") [or Don **Quixote** de la Mancha; accept Alonso **Quijano**; accept *The Ingenious Gentleman Don Quixote of La Mancha* or *El ingenioso hidalgo don Quijote de la Mancha*; accept *The Female* **Quixote**]

<European Literature>

10. Banana slugs occasionally cannibalize this body part, an act that may increase individual fitness. Echidnas have examples of this body part with four portions that can be used alternately. Flatworms attempt to injure each other with this body part in a behavioral ritual. In waterfowl such as ducks, this body part has backward-facing spines and is shaped like a corkscrew. In a condition called phimosis ("fai-MOH-siss"), a portion of this body part is unable to retract, preventing the exposure of the sensitive glans. For 10 points, name this body part whose head portion is covered by the foreskin, which can be surgically removed through circumcision.

ANSWER: **penis** [or **phallus**; accept **penis** fencing] <Biology>

- 11. Socialist leaders in this country formed a "Sacred Union" that pledged not to strike during World War I. Workers in this country gained the legal right to strike in a set of agreements that ended unrest after the 1936 election of socialist politician Léon Blum. The Grenelle Accords were signed in response to a series of wildcat strikes in this country during May 1968. After the first leader of this country's Fifth Republic fled to neighboring West Germany, Georges Pompidou ("zhorzh-juh POME-pee-doo") negotiated an agreement to end student occupation of the Sorbonne. For 10 points, name this country that was led after World War II by Charles de Gaulle.

 ANSWER: France [or Republic of France or French Republic or République française; accept French Third Republic or Troisième République; accept French Fifth Republic or Cinquième République]

 <European History>
- 12. Two flute concertos by this composer share their name with the Flemish period instrument ensemble "Il Gardellino." This composer's concertos for one and two mandolins, in C and G respectively, are staples in classical mandolin repertoire. This composer's virtuosic recorder concertos are numbered 443 to 445 in the Ryom-Verzeichnis ("RUW-yum fairt-SIKE-niss"), or RV, catalog. Twelve concerti grossi make up this composer's *L'estro armonico*. Sonnets that contain drunkards falling asleep and a frolicking shepherd's dog accompany four violin concertos in this composer's collection *The Contest Between Harmony and Invention*. For 10 points, a summer thunderstorm and birds chirping in the springtime are among the musical images in what Italian Baroque composer's *The Four Seasons*?

ANSWER: Antonio **Vivaldi** [or Antonio Lucio **Vivaldi**] <Classical Music>

13. In a novel from this country, Lydia carries the schoolbag of a character who reflects on the two of them having their picture taken for a *Life* photobook. A farmer who lives in this country donates milk to a rural village after encountering his son's unfinished manuscript "The Truth About Native Crime." In a novel set in this country, a fictional civil war forces Bam and Maureen Smales to flee in a yellow bakkie with the help of their servant. During an attempted robbery in this country, Arthur Jarvis is shot and killed by the son of Reverend Stephen Kumalo. For 10 points, Alan Paton's *Cry, the Beloved Country* takes place in what country, which is also the setting of Nadine Gordimer's anti-apartheid novels?

ANSWER: <u>South Africa</u> [or Republic of <u>South Africa</u> or R<u>SA</u>; or <u>Ningizimu Afrika</u> or <u>Mzantsi Afrika</u> or <u>Suid-Afrika</u> or <u>Afrika Borwa</u> or <u>Afrika Dzonga</u> or <u>Afurika Tshipembe</u> or <u>Sewula Afrika</u>] (The unnamed novel is *July's People* by Nadine Gordimer.)

<World/Other Literature>

14. Several tufa formations line an endorheic ("en-doh-ree-ick") lake in this state that was nearly drained for a project in the nearby Owens Valley. A ruptured irrigation canal near the southern border of this state accidentally created a toxic saline ("say-leen") lake, the Salton Sea. This state and its eastern neighbor share the Truckee River, which flows out of the largest non-Great lake in the U.S. This state's reservoirs, like Lake Oroville, have reached record-low levels due to a drought affecting its Central Valley. The San Joaquin River flows into a large bay in this state that borders Fremont and San Jose. For 10 points, name this state that contains the western half of Lake Tahoe and San Francisco Bay.

ANSWER: <u>California</u> [or <u>CA</u>] (The first sentence refers to Mono Lake.) <Geography>

15. Handheld tools known as this quantity's "multipliers" use a planetary mechanism to increase its value. A simple form of precession is "free" of this quantity, which "induces" the precession of a gyroscope ("JAl-ruh-scope"). Use of a screw-shaped "worm gear" creates high values of this quantity due to its very small gear ratio. This quantity is increased when a smaller gear turns a larger gear. The work performed by an axle equals the dot product of this quantity and angular displacement. This vector quantity is given by the moment of inertia times angular acceleration, and is symbolized tau. For 10 points, name this rotational analogue of force.

ANSWER: <u>torque</u> [accept <u>torque</u> multipliers; accept <u>torque</u>-free precession or <u>torque</u>-induced precession] <Physics>

16. In Arcadian festivals, this figure was conflated with a twin of the talking horse Arion named Despoina. After this figure gave her a box of death, Psyche became immortal. A man took advantage of this goddess's kindness after his wife, the Pleaid Merope, failed to place a coin in his mouth. Hecate's main role as a psychopomp is to guide this goddess of spring. A hero's lyre playing drove this goddess and her husband to release Eurydice. After eating six pomegranate seeds, this goddess was forced to spend six months of the year with her abductor Hades. For 10 points, name this daughter of Demeter who serves as queen of the underworld.

ANSWER: <u>Persephone</u> [accept <u>Kore</u> or <u>Cora</u>; accept <u>Prosperina</u> or <u>Proserpine</u>] (The third line refers to Sisyphus. The hero in the fourth line is Orpheus.)

<Mythology>

17. Two answers required. A functional group consisting of these two elements is produced with a "mixed acid" solution in an EAS reaction. Ions made of these two elements are attached to a compound whose vasodilating properties were discovered in arms factory workers. Groups made of these two elements give a pale-yellow toluene ("TALL-yoo-een") derivative its explosive properties. A compound of these two elements is added to engines to increase power output and is used as a dental anesthetic. These two elements, which make up laughing gas, have atomic numbers 7 and 8. For 10 points, name these two elements that together make up 99 percent of Earth's atmosphere.

ANSWER: $\underline{\text{nitrogen}}$ AND $\underline{\text{oxygen}}$ [accept $\underline{\textbf{N}}$ in place of "nitrogen"; accept $\underline{\textbf{O}}$ in place of "oxygen"; accept answers in either order] (The second line refers to nitroglycerin and the third line refers to TNT.) <Chemistry>

- 18. A Paul Benacerraf essay on the truth of this field introduces its epistemological problem, which questions how people could engage in this field under a Platonic interpretation, a view supported by the Quine–Putnam indispensability thesis. Intuitionism in the philosophy of this field rejects nonconstructive arguments. The idea that objects in this field are real and that therefore any proposition must be true or false was advanced by Kurt Gödel ("ger-del") in a letter on its continuum hypothesis. For 10 points, what academic field is the subject of a "Principia" by Alfred North Whitehead and Bertrand Russell that analyzed set theory and the construction of real numbers? ANSWER: mathematics [accept philosophy of mathematics; accept specific subfields like arithmetic; accept set theory until read; accept Principia Mathematica; prompt on logic] <Philosophy>
- 19. In a play set in this city, Peregrine humiliates a knight by convincing him to hide in a tortoise shell. A play set in this city uses animal names for Voltore and the servant Mosca, who both attempt to inherit the title nobleman's wealth. This city is the primary setting of *Volpone* and a play in which a woman describes a concept that "droppeth as the gentle rain from heaven" and is "not strained." That speech discussing the "quality of mercy" is given to a resident of this city who attempts to collect a "pound of flesh" from Antonio. Bassanio and Portia marry in a play set in this city that features the Jewish moneylender Shylock. For 10 points, what city is the setting of a Shakespeare play about a title "merchant"?

ANSWER: <u>Venice</u> [or <u>Venezia</u>; accept *The Merchant of <u>Venice</u>*] (*Volpone* is by Ben Jonson.) <British Literature>

20. In response to a visit to this modern-day country by the Chevalier de Chaumont, the diplomat Kosa Pan was sent on a 1686 embassy to Louis XIV at the behest of this country's king Narai ("nah-RYE"). A unifier in this country known as "the Great" moved its capital to its present location and established the Thonburi ("tone-boo-REE") Kingdom. After leading a coup against Taksin ("TOCK-seen"), General Chakri founded this country's current ruling dynasty. Anna Leonowens ("anna LEE-un-owens") tutored the children of King Mongkut in this country, a group that included the fifth of its kings to take the regnal name Rama. This former site of the Ayutthaya ("Al-yoo-tay-yah") Kingdom was the only country in Southeast Asia that was not colonized by Europeans. For 10 points, Siam was the former name of what country that is now governed from Bangkok?

ANSWER: Thailand [or Kingdom of Thailand or Ratcha-anachak Thai; prompt on Siam until read]

World History>

Bonuses

1. These materials are used in namesake "vertically aligned arrays" that are very effective field electron emitters. For 10 points each:

[10h] Name these materials that can have "armchair" or "zigzag" configurations depending on what kind of spiral their atoms trace out.

ANSWER: carbon **nanotube**s [accept vertically aligned **nanotube** arrays]

[10m] Nanotube arrays perform this process extremely well in the pigment Vantablack. This process occurs when a photon transfers all of its energy to matter, and is contrasted with emission.

ANSWER: **absorption** [or word forms such as **absorb**ing]

[10e] Nanotubes have extremely high strengths when subject to this kind of force, which acts in the opposite direction to compression.

ANSWER: **tension** [or **tension**al force]

<Physics>

2. Mozart wrote 41 symphonies and many of them started in similar ways. For 10 points each:

[10e] Mozart's last symphony starts with a loud [read slowly] "C, a fast triplet G A B, back to C," motif, which inspired the symphony to be nicknamed for this Roman god and his thunderbolts.

ANSWER: <u>Jupiter</u> [or <u>Jove</u> or <u>Iupiter</u> or <u>Iovis</u>; accept <u>Jupiter</u> Symphony]

[10h] Mozart also used that motif, with the upbeat twice as fast, in the slow introduction of this D major symphony. This symphony is named for the city where it premiered in 1787 after the success of *The Marriage of Figaro* there.

ANSWER: <u>Prague</u> Symphony [accept Mozart's <u>38</u>th Symphony or Mozart Symphony No. <u>38</u>; accept <u>Praha</u>] [10m] After the *Prague* Symphony's opening, a syncopated motif evokes the start of Mozart's 25th symphony in this key. The 25th and 40th are Mozart's only minor symphonies and are the "Little" and "Great" [this key].

ANSWER: $\underline{\mathbf{G}}$ minor [accept "Great $\underline{\mathbf{G}}$ minor symphony"; accept "Little $\underline{\mathbf{G}}$ minor symphony"] <Classical Music>

3. While living in Poitiers ("PWAH-t'yay"), this monarch may have established a "Court of Love" where she judged relationship issues with her daughter Marie. For 10 points each:

[10h] Name this monarch who controversially married Henry II weeks after the annulment of her marriage to Louis VII ("the seventh") of France. This monarch was imprisoned by Henry after supporting an 1173 revolt to overthrow him.

ANSWER: **Eleanor** of Aquitaine [or **Aliénor** d'Aquitaine]

[10e] Eleanor's "Court of Love" may have popularized the concept of courtly love, an ideal held by people with this profession. Apprentices of these people were known as squires in the Middle Ages.

ANSWER: **knight**s [or **chevalier**s or **Ritter**; prompt on <u>warrior</u>s or <u>soldier</u>s or <u>equestrian</u>s]

[10m] Eleanor served as regent for this son of hers while he traveled abroad to fight in the Third Crusade. In 1192, this ruler was captured and ransomed by Leopold of Austria.

ANSWER: **Richard I** [or **Richard the Lionheart** or **Richard Cœur de Lion**; prompt on **Richard**; prompt on **Plantagenet**]

<European History>

4. Answer the following about polyprotic ("poly-pro-tick") acids, for 10 points each.

[10e] Polyprotic acids dissociate to release multiple examples of this cation ("CAT-ai-on"). pH is a measure of this ion's concentration.

ANSWER: $\underline{\mathbf{H}}^{\pm}$ ("H-plus") [or $\underline{\mathbf{proton}}$; accept $\underline{\mathbf{H}}_{\underline{\mathbf{3}}}\underline{\mathbf{O}}^{\pm}$ ("H three oh plus") or $\underline{\mathbf{hydronium}}$ ion; prompt on $\underline{\mathbf{H}}$ or $\underline{\mathbf{hydrogen}}$ ion]

[10h] This weak acid, which has a trigonal planar geometry and can release up to two protons, is responsible for the acidification of Earth's oceans.

ANSWER: <u>carbonic</u> ("car-BON-ik") acid [or <u>H₂CO</u>₃ ("H two, C oh three")]

[10m] The dissociation of this strong acid also produces two protons. All superacids, by definition, must be stronger than this acid that is found in lead-acid car batteries.

ANSWER: $\underline{sulfuric}$ acid [or $\underline{H_2SO_4}$ ("H two, S oh four")]

<Chemistry>

5. The preface to this play claims that "the English have no respect for their language" and that "English is not accessible even to Englishmen." For 10 points each:

[10m] Name this play in which a character throws a pair of slippers at her teacher after a garden party and eventually marries Freddy Eynsford Hill.

ANSWER: **Pygmalion**

[10h] The title of *Pygmalion* became a euphemism for this word. In *Pygmalion*, Eliza Doolittle shocks Mrs.

Eynsford Hill with her casual use of this vulgar word to express her disdain for walking.

ANSWER: **bloody** [accept "Walk! Not **bloody** likely"]

[10e] Pygmalion was written by this Irish playwright, who also wrote Major Barbara and Man and Superman.

ANSWER: George Bernard **Shaw** [or Bernard **Shaw**]

<British Literature>

6. In some stories, this figure is conflated with a wife of one of the Eight Immortals who was turned into a three-legged frog for stealing from Mount Kūnlún ("kwun-l'wun"). For 10 points each:

[10h] Name this goddess who is central to the Mid-Autumn Festival. This goddess drank the elixir of immortality awarded to her husband for shooting down nine three-legged sun crows.

ANSWER: Cháng'é ("chahng-UH")

[10m] The elixir awarded to Hòu Yì was made from this life-giving food grown on Mount Kūnlún. In art, the Eight Immortals are often depicted traveling to a banquet of this food hosted by the Queen Mother of the West.

ANSWER: **peach**es [accept the **peach**es of immortality; or **táo**; prompt on **fruit**]

[10e] Kūnlún's connection with immortality may stem from it serving as one of the eight pillars of this divine realm, which Nǚwā once patched using turtle legs. Chinese emperors ruled with the "mandate" of this realm.

ANSWER: heaven [or tiān; accept sky; accept <a href="mailto:mandate of heaven" or "tiānming"]

<Mythology>

7. A leader described how his country will "awake with life and freedom" as a result of this event in the "Tryst with Destiny" speech. For 10 points each:

[10m] Name this event that occurred at midnight on August 15, 1947. The Radcliffe Line established a border between two countries created during this event.

ANSWER: <u>partition</u> of India [accept <u>Indian independence</u>; accept descriptions of the <u>creation</u> of <u>India</u>; accept, but do NOT otherwise reveal, <u>Pakistani independence</u> or descriptions of the <u>creation</u> of <u>Pakistan</u>]

[10e] The Partition of India resulted in the creation of India and this majority-Muslim state. Muhammad Ali Jinnah's work establishing this nation led him to be honored as its "father."

ANSWER: <u>Pakistan</u> [or Islamic Republic of <u>Pakistan</u> or Islāmī Jumhūriyah <u>Pākistān</u>]

[10h] In 1947, Jinnah met with this final Viceroy of India in an effort to resolve the Kashmir dispute that arose from the partition. This British official was later assassinated by members of the Provisional Irish Republican Army.

ANSWER: Louis <u>Mountbatten</u> [or Louis <u>Mountbatten</u>, 1st Earl Mountbatten of Burma; accept Earl <u>Mountbatten</u> or Lord <u>Mountbatten</u>]

<World History>

8. In the novel *Conversation in the Cathedral*, a character from this country asks "at what precise moment" this country had messed itself up. For 10 points each:

[10h] Name this country where Jaguar leads a group of boys at a military academy to steal an exam in the novel *The Time of the Hero*.

ANSWER: <u>Peru</u> [or the Republic of <u>Peru</u> or República del <u>Perú</u> or <u>Piruw</u> Ripuwlika or <u>Piruwxa</u> Ripuwlika] [10m] *The Time of the Hero* is a novel by this Peruvian author, who wrote about the soap opera writer Pedro Comacho in *Aunt Julia and the Scriptwriter*.

ANSWER: Mario <u>Vargas Llosa</u> [or Jorge Mario Pedro <u>Vargas Llosa</u>; prompt on <u>Vargas</u> or <u>Llosa</u>]

[10e] A Vargas Llosa novel is titled for one of these events "of the End of the World." This is the first title concept in a long Leo Tolstoy novel about Pierre Bezhukov, in which it is paired with its opposite.

ANSWER: <u>war</u>s [or <u>guerra</u>s; accept <u>War</u> and Peace or <u>Voyna</u> i mir; accept The <u>War</u> of the End of the World or La <u>guerra</u> del fin del mundo]

<World/Other Literature>

9. The hashtag "[*This country*] Is Bleeding" exposed child labor in cobalt mines like as Tenke Fungurume, which the state-owned Gécamines seeks to wrest away from China Molybdenum. For 10 points each:

[10e] Name this country whose president Félix Tshisekedi ("chee-say-kay-dee") investigated his predecessor Joseph Kabila's mining contracts. This country is governed from Kinshasa, which lies on a river that partially names this country.

ANSWER: <u>Democratic Republic of the Congo</u> [or <u>DRC</u> or <u>Congo-Kinshasa</u>; accept <u>Zaire</u>; or <u>République démocratique du Congo</u> or <u>Republika ya Kôngo ya Dimokalasi</u> or <u>Republiki ya Kongó Demokratíki</u> or <u>Jamhuri ya Kidemokrasia ya Kongo</u> or <u>Ditunga dia Kongu wa Mungalaata</u>; prompt on the <u>Congo</u> or #<u>Congo</u>IsBleeding; reject "Republic of the Congo" or "ROC" or "Congo-Brazzaville"]

[10h] In 2021, Ugandan counterterrorists fought the Allied Democratic Forces in the Congolese region of this name, where Hutu–Tutsi conflict continues. The 2021 Nyiragongo eruption damaged the city Goma on a lake of this name.

ANSWER: <u>Kivu</u> [or the <u>Kivus</u>; accept Lake <u>Kivu</u> or Lac <u>Kivu</u>; accept North <u>Kivu</u> or Nord-<u>Kivu</u>; accept South <u>Kivu</u> or Sud-<u>Kivu</u>; accept <u>Kivu</u> conflict; accept North <u>Kivu</u> conflict or 2008 Nord-<u>Kivu</u> War]

[10m] In the Ituri conflict north of Kivu, Lendu agricultural groups like CODECO have killed Hema people, who practice this lifestyle favored by Belgian colonists. Nigeria constrains this lifestyle with anti-open grazing laws.

ANSWER: **pastoral**ism [or **herd**ing; accept raising **livestock** or animal **husbandry**; accept raising **cattle** or **ox**en or **cow**s or **bull**s; accept herding **sheep** or **goat**s or **caprine**s; accept **transhumance**; prompt on nomadism; prompt on farming; prompt on raising animals]

<Current Events>

10. In a controversial series in this art form, Yves Klein hired nude models to make blue imprints of themselves with their paint-covered bodies. For 10 points each:

[10e] Marina Abramović practices what art form in which artists create or act out art in front of an audience or camera? Zhāng Huán covered his naked body in honey to attract flies for an artwork of this type.

ANSWER: performance art

[10m] In early performances, Yayoi Kusama "erased" people's nude bodies with these things, which are a common obsession in her works. Roy Lichtenstein's Pop Art uses the Ben Day variety of these things to mimic comic books.

ANSWER: **dot**s [accept polka **dot**s or **circle**s; accept Ben Day **dot**s; prompt on <u>stickers</u> by asking "what shape are the stickers?"]

[10h] In her nude concerts, Charlotte Moorman often used a cello or bra made of these objects to cover herself. Nam June Paik recorded Buddha sculptures staring at these objects in an installation series.

ANSWER: <u>television</u>s [or <u>TV</u>s; accept <u>monitor</u>s or video <u>screen</u>s]

<Painting/Sculpture>

11. Answer the following about geologic formations known as MORBs ("morbs"), for 10 points each.

[10e] MORB stands for the "mid-ocean ridge" variety of this igneous rock. Along with gabbro, this rock makes up much of the Earth's oceanic crust.

ANSWER: **basalt** ("buh-SALT") [accept mid-ocean ridge **basalt**s]

[10h] As underwater lava cools into MORBs, it alternately flows and solidifies to create groups of large, oblong structures named after this common household object.

ANSWER: **pillow**s [accept **pillow** basalts]

[10m] MORBs are often found near these features, where superheated water is ejected from the seafloor. Black and white smokers are examples of these features.

ANSWER: **hydrothermal vent**s [prompt on deep-sea vents]

<Other Science>

12. This city was captured without a fight after Admiral David Farragut broke the chain between Forts Jackson and St. Philip and sailed his fleet past them. For 10 points each:

[10m] Name this port that was the largest city in the Confederate States of America. An earlier battle for this city was won with the help of the pirate Jean Lafitte.

ANSWER: New Orleans [or NOLA; accept Battle of New Orleans]

[10h] New Orleans was ruled under martial law by this commander, whose General Order No. 28 marked women insulting Union soldiers as prostitutes after women emptied chamber pots onto passing soldiers' heads.

ANSWER: Benjamin Butler

[10e] Butler founded the Native Guards, a military unit composed of these people, in New Orleans. Butler's designation of these people as "military contraband" inspired the Emancipation Proclamation.

ANSWER: fugitive en<u>slave</u>d people [accept <u>freedmen</u> or freed <u>slave</u>s; prompt on <u>Black</u> people or

African-Americans

<American History>

13. This amino acid's namesake decarboxylase converts it into the inhibitory compound GABA ("GAB-uh"). For 10 points each:

[10m] Name this amino acid whose sodium salt is a common food additive that imparts the taste of umami.

ANSWER: <u>glutamate</u> [or <u>glutamic acid</u> or <u>Glu</u>; accept monosodium <u>glutamate</u>; prompt on \underline{MSG} ; prompt on \underline{E}]

[10e] Glutamate is an excitatory ("excite-uh-tory") type of these molecules, which are released at the synapse to communicate nerve signals. Serotonin and dopamine are examples of these signaling molecules.

ANSWER: <u>neurotransmitter</u>s [reject "hormones"]

[10h] Glutamate receptors play a major role in this ability by governing mechanisms such as long-term potentiation. This ability is when connections in the brain strengthen or weaken depending on use.

ANSWER: synaptic **plasticity** [accept neuro**plasticity**] <Biology>

14. In the short story "All Summer in a Day," Margot is locked in a closet on the first day in seven years that this phenomenon ceases on Venus. For 10 points each:

[10h] Name this phenomenon that partially titles a short story about an automated house that recites the title Sara Teasdale poem despite its inhabitants having been killed in a nuclear disaster.

ANSWER: rain [accept "There Will Come Soft Rains"]

[10m] "All Summer in a Day" and "There Will Come Soft Rains" are short stories by this author of *The Martian Chronicles* and *The Illustrated Man*.

ANSWER: Ray **Bradbury** [or Ray Douglas **Bradbury**]

[10e] The house in "There Will Come Soft Rains" announces "Today is August 5, 2026" after being destroyed in this manner. In Bradbury's novel *Fahrenheit 451*, Guy Montag's job includes destroying books in this manner.

ANSWER: **fire** [or **burn**ing or equivalents]

<American Literature>

15. The winners of the 2019 through 2021 WNBA Sixth Woman of the Year awards all play for a team in this city. For 10 points each:

[10m] Name this city where Kelsey Plum and Dearica Hamby currently play home games. An NHL team in this city made the Stanley Cup Finals in their first season of existence in 2018.

ANSWER: Las Vegas [accept Las Vegas Aces; accept Las Vegas Golden Knights]

[10h] The Las Vegas Aces won the 2022 WNBA championship under the leadership of this coach, who took over from Bill Laimbeer.

ANSWER: Becky **Hammon** [or Rebecca Lynn **Hammon**]

[10e] Plum and Hamby both started their careers when the Aces played as the Stars in this city. Becky Hammon was an NBA assistant coach in this city under Gregg Popovich, who led this city's Spurs to five NBA championships.

ANSWER: San Antonio [accept San Antonio Stars; accept San Antonio Spurs]

<Pop Culture>

16. Elfriede Jelinek ("YELL-lee-nek") wrote a response to this play that critiques patriarchal capitalist societies and is titled for what happens after a central action. For 10 points each:

[10e] Name this Henrik Ibsen play in which Nora defiantly walks out from her husband Torvald rather than stay in the title metaphorical location.

ANSWER: A <u>Doll's House</u> [or Et <u>dukkehjem</u>] (The Elfriede Jelinek work is "What happened after Nora left her husband and met the pillars of societies.")

[10m] This Swedish playwright included a criticism of *A Doll's House* in the preface to his short story collection *Getting Married*. In a play by this author, Jean leaves Miss Julie a razor to commit suicide.

ANSWER: August **Strindberg** [or Johan August **Strindberg**]

[10h] Nora's walkout is prompted by Torvald's discovery that this object was returned by Krogstad. Krogstad earlier uses this object to try to blackmail Nora into stopping Torvald from firing him.

ANSWER: a bond [accept loan]

<European Literature>

17. *The New Second Generation* by Portes and Zhōu theorized that this process is followed by segmented assimilation. For 10 points each:

[10e] Name this process that people undertake as a result of push or pull factors. Other sociologists theorize that people who undergo this process integrate into new societies through a "melting pot" model.

ANSWER: immigration [prompt on movement or displacement or equivalents]

[10h] *The New Second Generation* included analysis of a community of immigrants from this country in Miami. It's not Jamaica, but Zora Neale Hurston based the book *Tell My Horse* on her work in this country.

ANSWER: <u>Haiti</u> [or Republic of <u>Haiti</u> or République d'<u>Haïti</u> or Repiblik d <u>Ayiti</u>]

[10m] David Card and George Borjas ("BOR-hahss") debated whether immigration altered this quantity for native-born workers. The average of this quantity for an industry in a specific area is its "prevailing" type.

ANSWER: <u>wage</u>s [accept minimum <u>wage</u> or prevailing <u>wage</u>; accept the marginal revenue product theory of <u>wage</u>s; prompt on <u>price floor</u>]

<Social Science>

18. This civilization's largest city in the Early and Middle Formative Periods was San José Mogote ("moh-GO-tay"). For 10 points each:

[10h] Name this civilization centered around Monte Albán in the Classic Period. They shared the Oaxaca ("wah-HAH-kah") Valley with the Mixtec prior to the Spanish Conquest.

ANSWER: **Zapotec**s ("ZAP-uh-teks") [or **Zapotec** civilization]

[10e] San José Mogote's Monument 3 is a "danzante" ("dahn-SAHN-tay") with the name "1 ("one") Earthquake," the earliest use of the Zapotec script and one of the first known uses of this system. In Mesoamerica, this system had simultaneous 260 and 365 day cycles.

ANSWER: Mesoamerican <u>calendar</u> [accept <u>Calendar</u> Round; accept <u>Tzolk'in</u> and Haab'; accept <u>Tōnalpōhualli</u> and Xiuhpōhualli; reject "Long Count"]

[10m] The Zapotec "danzantes" sculptures likely did not depict dancers but rather prisoners undergoing this ritual action. The Aztecs performed this action on high-ranking prisoners atop a *cuauhxicalli* ("k'waw-shee-KAH-lee").

ANSWER: human <u>sacrifice</u> [or equivalents such as humans being <u>killed as offerings</u> to the gods; prompt on descriptions of <u>killing</u> or <u>execution</u>; prompt on <u>offering</u> to the gods; prompt on descriptions of <u>extracting</u> the <u>heart</u> of prisoners; reject "animal sacrifice"]

<Other History>

19. A hymn titled for these objects includes the lyrics "Hark! How the heavenly anthem drowns all music but its own." For 10 points each:

[10h] Name these objects that are called stefana when they are given to spouses in Orthodox marriages during a namesake "office" that follows the Office of Betrothal. The Pope uses one of these objects called the triregnum.

ANSWER: <u>crown</u>s [accept "Crown Him With Many <u>Crown</u>s"; accept Office of the <u>Crown</u>ing; accept <u>tiara</u>; accept triple <u>tiara</u>; accept triple <u>crown</u>]

[10m] During Christian weddings, this book provides a common reading that begins "love is patient, love is kind." This book's thirteenth chapter compares those that speak without love to a clanging cymbal.

ANSWER: <u>1 Corinthians</u> [or <u>First Corinthians</u> or <u>First</u> Epistle to the <u>Corinthians</u>; prompt on <u>Corinthians</u>] [10e] First Corinthians was written by this former persecutor of Christians, who converted on the road to Damascus. This apostle analogized the church to the "bride of Christ" in Ephesians, one of his many epistles.

ANSWER: Saint <u>Paul</u> [or <u>Paul</u> the Apostle or <u>Saul</u> of Tarsus or <u>Paulos</u> or <u>Paulus</u>] <Religion>

20. Michael Tippett used five songs in this genre in his oratorio *A Child of Our Time*. For 10 points each: [10m] Name this genre of Black Christian music. The Fisk Jubilee Singers recorded several of these songs in the 19th century, including one that begins with the verse "When Israel was in Egypt's land / Let my people go." ANSWER: **spiritual**s [accept **slave song**s; prompt on <u>freedom song</u>s; prompt on <u>gospel</u> music] [10h] A popular recording of "Go Down, Moses," was made by this singer and activist. This singer, who was later blacklisted for his ties to the U.S.S.R., gained fame from his performance of "Ol' Man River" in *Showboat*. ANSWER: Paul **Robeson** [or Paul Leroy **Robeson**]

[10e] This singer and jazz trumpeter made a recording of "Go Down, Moses" in 1958. This New Orleans musician nicknamed "Satchmo" was known for his deep, gravelly voice and recording of "What a Wonderful World."

ANSWER: Louis <u>Armstrong</u> [or Louis Daniel <u>Armstrong</u>] <Other Fine Arts>