

Spring Novice (April 17th, 2021)

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Packet 6

1. **This character says she knows that she “[fibs] a good deal” because “a woman’s charm is fifty per cent illusion” but insists that she did not cheat her sister. After dancing the Varsouviana, this character’s husband shoots himself after she calls him “disgusting” for his homosexuality. While allegedly living in the disreputable Hotel Flamingo, this former teacher was fired for her (*) affair with a student. This former resident of Belle Reve has a breakdown after Stanley Kowalski assaults her, and when revived, she states that she has “always depended on the kindness of strangers.”** For 10 points, name this protagonist of *A Streetcar Named Desire*.

ANSWER: **Blanche** DuBois [or Blanche **DuBois**; accept **Blanche** Grey; prompt on **Grey**]

<PS, Literature - Drama>

2. **The only casualties of the losing side in this battle were two privates killed by ceremonial cannons afterwards. The self-proclaimed “hero” of this battle was a general who apocryphally invented baseball. At this battle, forces under Robert Anderson were fired on by general (*) P. G. T. Beauregard’s troops. Batteries at Morris Island and Fort Moultrie fired on the ship *Star of the West* in the run up to this battle. Following this battle, Abraham Lincoln called for 75,000 troops, leading Virginia and North Carolina to secede. For 10 points, name this battle, a victory for the South Carolina militia near Charleston, the first battle of the Civil War.**

ANSWER: Battle of **Fort Sumter** (The "hero" of the battle was Abner Doubleday.)

<JD, History - American History>

3. **In January 2021, a former player for this country’s national team moved to Fenerbahçe (“feh-NAIR-bah-chay”) after Arsenal allegedly sidelined him for criticizing Chinese treatment of Uyghur (“WEE-gur”) Muslims. Club members in this country hold a majority stake in most top-flight clubs because of the 50+1 (“fifty-plus-one”) rule. Before being sold to Chelsea, American player (*) Christian Pulisic (“puh-LISS-ick”) made his professional debut in this country. In the 2014 World Cup, Toni Kroos scored twice for this country in a seven-to-one win over Brazil. For 10 points each, name this home country of Manuel Neuer, whose Bundesliga features Schalke 04 and Bayern Munich.**

ANSWER: **Germany** [or Federal Republic of **Germany**; or **Deutschland**]

<AZ, Pop Culture - Sports>

4. **A eugenicist who attempted to establish a department of social biology at LSE authored a report advocating for the development of one of these programs. The two-tier model describes citizens’ choice between one of these programs and a private program. The first state-level program of this kind in the United States was abandoned in 2014 after running for three years in Vermont. The (*) Beveridge report led to the creation of one of these programs in the UK. All costs are covered by the government in the single-payer variety of these programs. For 10 points, name these social programs such as Britain’s NHS, which guarantee all residents access to medical care.**

ANSWER: universal **healthcare** programs [accept **public healthcare** programs]

<CB, Social Science - Other Social Science>

5. After recounting her life's story, one woman in this novel pulls "the horizon in like a great fish-net" and "[calls] her soul to come and see." While sitting under a pear tree, the protagonist of this novel kisses a "trashy" boy, causing her grandmother to marry her off. After leaving Logan (*) Killicks, the protagonist of this novel works at a store for the mayor, Jody Starks. When her lover contracts rabies during a hurricane, this novel's protagonist is forced to shoot her husband Tea Cake. For 10 points, name this novel primarily set in Eatonville, Florida, about the life of Janie Crawford, by Zora Neale Hurston.

ANSWER: *Their Eyes Were Watching God*

<PS, Literature - Long Fiction>

6. Béla Bartók's variation on this technique is indicated using a circle with a vertical line intersecting it at 12 o'clock. This technique is used throughout the third movement of Tchaikovsky's Symphony No. 4 and the second movement of Ravel's String Quartet in F. A plus symbol indicates the one-handed version of this technique in the last of a set of caprices by (*) Paganini. After passages employing this technique, the term *arco* is used to return to normal playing. The name for this technique is Italian for "pinched." For 10 points, what musical technique involves plucking the strings instead of bowing them?

ANSWER: pizzicato [accept plucking before read]

<JC, Arts - Music>

7. In 2020, this country's most populous state passed a law banning forced conversion for marriage in order to combat a supposed "love jihad." That law to reduce interfaith marriages was announced as part of the Mission Shakti program. In 2019, this country revoked Article 370 of its constitution, which granted limited autonomy to its only Muslim-majority state, Jammu and (*) Kashmir. In 2002, the current prime minister of this country oversaw anti-Muslim riots when serving as chief minister of its state of Gujarat. For 10 points, name this South Asian country led by Narendra Modi from New Delhi.

ANSWER: India [or Republic of India; or Bhārat Gaṇarājya]

<RR, The World - Current Events>

8. It's not the liver, but inflammation or cancer can stimulate stellate cells in this organ to secrete ECM proteins and growth factors to heal. One protein produced in this organ is activated by cleaving off C-peptide. Acinar ("ASS-in-ur") cells in this organ are stimulated by CCK to secrete a zymogen-rich bicarbonate juice. That liquid travels through this organ's duct of (*) Wirsung. A juvenile autoimmune disease is caused by a loss of beta cells in this organ. Glucagon is secreted by alpha cells in this organ's islets of Langerhans. For 10 points, name this organ that is damaged in type 1 diabetes patients and regulates blood sugar by secreting insulin.

ANSWER: pancreas

<AZ, Science - Biology>

9. This deity transformed into a black ant and accompanied a red ant on a journey to retrieve a new grain. This deity tricks the Lord of the Underworld by filling a conch shell with bees. After all life is drowned in a flood of blood, this deity stole bones from Mictlan ("meekt-LAHN") to make the fifth race of humans. This deity became the second sun after clubbing his brother (*) Tezcatlipoca ("tez-KAHT-lee-POH-kah") from the sky. One story tells of this deity disappearing over the eastern horizon on a raft of snakes, which led to Hernán Cortés allegedly being mistaken for this deity. For 10 points, name this feathered serpent deity, the chief god of the Aztec pantheon.

ANSWER: Quetzalcoatl ("KET-sull-koh-AH-tull")

<RR, Beliefs - Mythology>

10. A player of this instrument wrote the tune “Con Alma” for his 1954 album *Afro*, which contains collaborations with Chano Pozo and opens with the first jazz standard based on a clave (“KLAH-vay”) rhythm, “Manteca.” Another player of this instrument gathered a nonet for songs like “Jeru” and “Boplicity” on an album recorded with Gil Evans. One musician saw a bandmate fall on this instrument and discovered that he liked the sound better, leading him to play a (*) “bent” type of this instrument, which was also played by the musician who recorded the album *Kind of Blue*. For 10 points, name this brass instrument played by Dizzy Gillespie and Miles Davis.

ANSWER: trumpet [accept bent trumpet] (“Jeru” and “Boplicity” are on *Birth of the Cool*.)

<CL, Arts - Other Arts - Jazz>

11. The six-factor formula for this process is used to determine an “effective multiplication factor” for this process. Geological dating can be performed by observing “tracks” left by this process. In this process, “fast” particles are converted to “thermal” ones by graphite or (*) heavy water, which are moderators that regulate neutron energies. If the critical mass is achieved, then neutrons colliding into other atoms will drive a chain reaction of this process, which is exploited by nuclear reactors. “Splitting the atom” refers to, for 10 points, what process, the opposite of nuclear fusion?

ANSWER: nuclear fission [prompt on nuclear chain reaction or nuclear reaction; do not accept or prompt on “nuclear fusion”]

<DB, Science - Physics>

12. The assassination of a king of this country inspired the assassination of William McKinley. That king of this country was killed by an anarchist who was outraged over the Bava Beccaris Massacre. This country was defeated by the forces of Menelik II at the Battle of Adwa during its first invasion of Ethiopia. After this country joined the (*) Entente (“on-TONT”) Powers late in World War I, Vittorio Orlando represented this country at the Paris Peace Conference. This country was first unified in 1871 under Victor Emmanuel II due to the Risorgimento. For 10 points, name this country taken over by Benito Mussolini after the March on Rome.

ANSWER: Kingdom of Italy [or Italia]

<NH, History - European History>

13. An alleged miracle concerning this ritual occurred to a doubting monk in Lanciano, Italy. First Corinthians 11:27–29 (“chapter 11, verses 27 to 29”) affirms that people in a state of mortal sin cannot participate in this ritual until they have undergone penance. The words (*) “do this in memory of me” are spoken during this ritual, and at its end, the reserved sacrament is placed in the tabernacle. The doctrine of transubstantiation concerns this sacrament, which acts as a reenactment of the Last Supper. For 10 points, name this sacrament in which unleavened bread wafers and wine transform into the flesh and blood of Christ.

ANSWER: Eucharist [or Holy Communion; or Lord’s Supper; accept transubstantiation until “participate” is read]

<KT, Beliefs - Religion>

14. When modeling a game with these things, a “ply” is a layer representing a player’s turn. CART is a machine learning method that uses two forms of the “decision” type of these things. Neural network data populated one of these structures on which Google’s AlphaGo used a Monte Carlo search method. The minimax algorithm can be applied more efficiently on these structures with alpha-beta (*) pruning. A game in which each player has only two allowed moves can be modeled with the “binary” type of this structure, where the two child game states represent a reaction to the parent state. For 10 points, name these structures in computer science that have branches and leaves.

ANSWER: trees

<LM, Science - Other Science - Computer Science>

15. Irish settlers of this island named it *Talamh an Éisc* (“TALL-uh wun aishk”) and its native people built houses called *mamateeks*. This island’s most populous city is on the Avalon Peninsula, while its Burin Peninsula is adjacent to the French-controlled islands of St. Pierre and Miquelon. This homeland of the Beothuk people was the base for the cod fishing industry on the nearby (*) Grand Banks. This island is northeast of Prince Edward Island and Cape Breton Island across the Gulf of St. Lawrence. The site of L’Anse aux Meadows on this island was settled by Vikings, who called the area Vinland. For 10 points, name this Canadian island that forms a province with Labrador.

ANSWER: Newfoundland [or *Terre-Neuve*; or *Taqamkuk*]

<MP, The World - Geography>

16. The welfare benefits of subjecting pollutants and toxic waste to this activity were the topic of a controversial memo signed by Larry Summers. Paul Krugman’s Nobel Prize was awarded for his work on geography and this activity. The United States’ capital-to-labor ratios for this activity inspired the Leontief paradox, which contradicts the (*) Heckscher–Ohlin model of this activity. David Ricardo noted the asymmetries in opportunity cost in producing wine and cloth in coining the term “comparative advantage” to explain production patterns for this activity. This activity is called “free” if it is not subject to tariffs. For 10 points, name this activity, the export and import of goods.

ANSWER: international trade

<AJJ, Social Science - Economics>

17. The name of the first-known holder of this title appears on an object that depicts two long-necked beasts known as the serpopard; that object is the Narmer Palette. The mortuary temple of a holder of this title was found at Deir el-Bahri (“deer el-BAH-ree”), contained myrrh trees, and depicted scenes from an expedition to the Land of Punt. The crook and flail were symbols of holders of this title, one of whom moved his capital to Amarna and worshipped the (*) sun disk Aten. The New Kingdom holders of this title were buried in the Valley of the Kings. For 10 points, name this title whose holders include Hatshepsut, Ramesses III, and Tutankhamen.

ANSWER: Pharaoh of Egypt [accept answers related to a ruler of Egypt, king of Egypt, or queen of Egypt; prompt on ruler, king, or queen]

<KT, History - Ancient History>

18. This work begins with seven unison F-sharps, followed by a violin melody inspired by a door hinge squeaking. That motif in this work is repeated a half step higher in a song preceding a night that one character will “regret for the rest of my days.” A counterpoint in this work contains an abrupt key shift followed by the line “Don’t modulate the key / then not debate with me.” A melodic joke in this work descends on the lyric “oceans rise” and ascends on (*) “empires fall” in the song “You’ll Be Back.” The original director of this play, Thomas Kail, won one of 11 Tonys awarded to this hip-hop-influenced musical. For 10 points, name this American history musical written by Lin-Manuel Miranda.

ANSWER: Hamilton: *An American Musical*

<AJJ, Pop Culture - Other Pop Culture>

19. Scottish explorer Alexander Gordon Laing died shortly after reaching this city. This city was displayed prominently at the southwest corner of the Catalan Atlas, and was the destination of salt caravans from Taoudenni (“TOW-den-nee”). A library in this city is named after Ahmed Baba, who was exiled after the Battle of Tondibi by invading (*) Moroccans. Leo Africanus provided an influential account of this city, which contained the University of Sankore. This city was the center of learning for an emperor famous for a gold-laden pilgrimage to Mecca. For 10 points, what Saharan center of trade was once ruled by Mansa Musa in Mali?

ANSWER: Timbuktu [or *Tombouctou*; or *Tin Buqt*; or *Tumbutu*]

<MP, History - World History>

20. **This painter inspired and named a group of painters centered in Utrecht. Artemisia Gentileschi's violent version of Judith beheading Holofernes was inspired by this artist's milder version of the scene. This artist invented a technique in which the very dark backgrounds of his paintings create a spotlight effect, called (*) tenebrism. Light enters from the upper-right corner of another painting by this artist, illuminating a group of five individuals huddled around a table while Jesus points at the title tax collector. For 10 points, name this Italian Baroque artist who made heavy use of contrasts in light called *chiaroscuro* ("KYAH-ro-SKOO-ro") and painted *The Calling of St. Matthew*.**

ANSWER: Michelangelo Merisi da Caravaggio

<SF, Fine Arts - Painting>

21. **People in this place sing "what belongs to him or her and to none else" in a poem that describes the "varied carols" of mechanics, shoe-makers, and other laborers. This place partially titles a collection that one poem referred to as "the ill-formed offspring of my feeble brain." That collection is titled *The Tenth Muse Lately Sprung Up in [this place]*. In another poem, the speaker who is sent to (*) "eat in the kitchen" declares "I, too, sing [this place]." For 10 points, name this place that Phillis Wheatley wrote about in "On Being Brought from Africa to" this country, the adult home of Anne Bradstreet and Walt Whitman.**

ANSWER: America [or United States of America; or USA] (The unnamed poems are Walt Whitman's "I Hear America Singing," and Anne Bradstreet's "The Author to Her Book.")

<PS, Literature - Poetry>

22. **This is the number of bonds that platinum forms in Zeise's salt, and it is the number of hydrogen atoms in the reducing agent LAH. A cyclic ring only follows Hückel's rule when it has two more than a multiple of this number of pi electrons. In VSEPR ("vesper") theory, this is the coordination number in seesaw geometry and the steric number in (*) trigonal pyramidal geometry. This is the number of oxygen atoms in a perchlorate ion. In organic compounds, carbon typically forms this many bonds. For 10 points, name this number that is also the number of bonds in a tetrahedral geometry.**

ANSWER: four

<SF, Science - Chemistry>

23. **In one story by this author, a large gold censer hangs in a pentagonal bridal chamber, where the narrator has opium-induced hallucinations about ruby-red drops of liquid falling into the wine his wife drinks. A different character created by this author is reading a story about the dragonslayer Ethelred when he is interrupted by his twin sister who he (*) buried alive, Madeline. In another of this author's stories, the murder of Madame L'Espanaye is solved by C. Auguste Dupin when he discovers that a razor-wielding orangutan is guilty. For 10 points, name this author of "Murders in the Rue Morgue" and "The Fall of the House of Usher."**

ANSWER: Edgar Allan Poe (The first story is "Ligeia.")

<AL, Literature - Short Fiction>

24. **Alfred Tarski developed a theory of this concept that disallows a predicate of this concept from existing in an object language; that theory relies on Convention T, which separates adequate and inadequate theories of this concept. This property is called "vacuous" if it exists because the antecedent of a conditional is impossible. The definition of knowledge as justified belief with this property was challenged by the development of (*) Gettier ("GETTY-er") problems. Fuzzy logic represents this property as a probability. Tables named for this property are used to evaluate logical statements. For 10 points, name this property contrasted with falsehood.**

ANSWER: truth [or truthhood or truthfulness]

<CA, Beliefs - Philosophy>

Bonuses

1. During a tense game of croquet, a character with this first name asks another character with this first name if she had “a brain tumor for breakfast.” For 10 points each:

[10m] Give this first name of a character whose red scrunchie becomes a prized possession following her death. Three students with this name form a clique with Veronica Sawyer at Westerburg High School.

ANSWER: **Heather**

[10h] This group of actors became famous for starring in less macabre '80s coming-of-age films like *The Breakfast Club*. Actors in this group include Emilio Estevez and Molly Ringwald.

ANSWER: the **Brat Pack**

[10e] John Hughes, the director of *The Breakfast Club*, also directed this film, in which the title character skips school to have a day out in Chicago.

ANSWER: **Ferris Bueller's Day Off**

<AJJ, Pop Culture - Movies/TV>

2. The main melody of this movement begins with the quarter notes [*read slowly*] G, F-sharp, low B, then E, D, low G. For 10 points each:

[10h] Name this movement of a certain suite that features a lyrical cello melody over piano arpeggios, representing the title animal.

ANSWER: “The **Swan**” [or “Le **Cygne**”]

[10m] “The Swan” is the penultimate movement of *The Carnival of the Animals*, a work by this French composer of *Danse Macabre*.

ANSWER: Camille **Saint-Saëns** (“san-SAWNS”)

[10e] Like *Carnival of the Animals*, *Danse Macabre* imitates rattling bones using this mallet percussion instrument that had recently been introduced to Europe. The marimba is a larger version of this wooden instrument.

ANSWER: **xylophone**

<JC, Arts - Music>

3. Alternate personas and magical disguises are a common occurrence in the world of Norse mythology. For 10 points each:

[10m] Name this Norse god who sometimes used the guise of Rig. This god guards the Bifrost bridge, is able to hear grass grow, and will blow the Gjallarhorn (“GYAH-lar-horn”) at the start of Ragnarok.

ANSWER: **Heimdallr**

[10e] This god stole the Mead of Poetry while under the guise of Bolverk. This god rides the eight-legged horse Sleipnir and is the chief Norse god.

ANSWER: **Odin** [or **Wodan** or **Wotan**]

[10h] After Loki tricked Hodr into killing Baldr, he flees Asgard and hides in the form of this animal. As a boy, Finn MacCool ate one of these animals that contained all of the world's wisdom.

ANSWER: **fish** [accept **salmon**]

<JH, Beliefs - Mythology>

4. This poet's fragment 31 begins "In my eyes he matches the gods" and describes how "my tongue breaks down, and then all at once a subtle fire races inside my skin." For 10 points each:

[10m] Name this poet from Lesbos whose fragments were translated by Anne Carson in the collection *If Not, Winter*. An English term for love between two women is derived from this poet's name.

ANSWER: **Sappho**

[10h] This Roman poet translated Sappho's fragment 31 and addressed it to his lover Lesbia. Another poem that this man addressed to Lesbia begins by imploring her to "let us live and love."

ANSWER: Gaius Valerius **Catullus**

[10e] Catullus adapted Sappho 31 into a poem in this language. Ovid's *Metamorphoses* is also written in this ancient language.

ANSWER: **Latin**

<AL, Literature - Poetry>

5. A body of water named for this person is home to the Commander Islands, which include an islet named for the tufted puffins that breed there. For 10 points each:

[10m] Name this person, the namesake of a sea that was the habitat of the extinct Steller's Sea Cow and a strait that contains the Diomed Islands, which are jointly owned by the United States and Russia.

ANSWER: Vitus **Bering** [accept **Bering** Sea; accept **Bering** Strait]

[10h] The Bering Sea is northeast of this other sea, which is bordered by the islands of Sakhalin and Hokkaido as well as the Kuril Islands. The city that this sea is named for was a pit stop on Bering's Expeditions.

ANSWER: Sea of **Okhotsk**

[10e] Alaska's Bagley Icefield feeds one of these objects named for Bering, the largest one in North America. A national park in Montana is named for these masses of ice that move over land and form moraines.

ANSWER: **glacier** [accept Bering **Glacier** System; accept **Glacier** National Park]

<CL, The World - Geography>

6. A character created by this author constantly makes "spiritual victories" out of his failings and oversleeps the revolution that has come to his village. For 10 points each:

[10h] Name this writer who described a peasant who strives to draw a perfect circle in "The True Story of Ah Q" and a man who sees the phrase "Eat people!" in "A Madman's Diary."

ANSWER: **Lu** Xun [or **Zhou** Shuren; accept **Ba Ren**]

[10e] Lu Xun ("loo shwun") was a writer and essayist in this language. A genre of fiction centering on martial arts heroes known as *wuxia* ("woo-shyah") was written in this language.

ANSWER: Mandarin **Chinese** [accept **Mandarin**]

[10m] Another Chinese essayist, Eileen Chang, critiqued this writer's *The Outline of History* for trying to impose a coherent narrative on history. In another book, this writer wrote about the Morlocks, who eat the Eloi.

ANSWER: H. G. **Wells** [or Herbert George **Wells**]

<RC, Literature - Short Fiction>

7. By measuring how crows bobbed their heads in response to flashing lights, a 2020 paper concluded that they have the capacity for this concept. For 10 points each:

[10m] Name this tough-to-define philosophical concept that can refer to the awareness of one's own existence.

ANSWER: **consciousness** [accept **self-consciousness** or access **consciousness**]

[10h] This term refers to the subjective elements of consciousness, such as the feeling of what it is like to experience something. The hard problem of consciousness concerns why and how we experience these things.

ANSWER: **qualia** [or **quale**]

[10e] It is debated whether or not a machine that possesses this concept would also be conscious. Consciousness is a component of the "strong" form of this concept.

ANSWER: **artificial intelligence** [or **AI**; accept **machine intelligence**; prompt on **intelligence** by asking "what type of intelligence?"]

<CL, Beliefs - Philosophy>

8. Answer the following about reaction coordinate diagrams, for 10 points each.

[10h] For reaction coordinate diagrams with free energy as the y -axis, a reaction whose products are plotted higher than its reactants is this type of reaction.

ANSWER: **endergonic** reaction [accept **nonspontaneous** reaction]

[10m] On a reaction coordinate diagram, relative minima represent these entities, while relative maxima represent transition states.

ANSWER: reaction **intermediates**

[10e] The difference between a minimum and its successive maximum on a reaction coordinate diagram is the activation energy, which is lowered by these substances to increase the rate of a reaction.

ANSWER: **catalysts**

<SF, Science - Chemistry>

9. The Memphis Massacre of 1866 heightened racial tensions at the beginning of this period. For 10 points each:

[10e] Name this time period of American history immediately following the Civil War. During this period, the passage of the 13th, 14th, and 15th Amendments attempted to ensure the rights of newly emancipated slaves.

ANSWER: **Reconstruction** Era

[10m] This revisionist historian attacked the consensus Dunning School in his book *Black Reconstruction*. He also included an essay on the Freedmen's Bureau, "On the Dawn of Freedom," in his collection *The Souls of Black Folk*.

ANSWER: W. E. B. **DuBois**

[10h] This historian at Columbia also denounced the Dunning School and cast Blacks as the driving force of Reconstruction in a book that calls the period "America's Unfinished Revolution."

ANSWER: Eric **Foner**

<JD, History - American History>

10. Monte Carlo methods can be used to approximate this operation by randomly placing points in a region. For 10 points each:

[10e] Name this operation that yields the area under the curve of a function. It is the opposite of differentiation.

ANSWER: **integration** [accept (in)definite **integral**; prompt on **antiderivative**]

[10m] Definite integrals can also be estimated with this method, in which the combined areas of thin rectangles or trapezoids approximate the region under the curve of a function.

ANSWER: **Riemann** sum

[10h] A third way to estimate integrals is with this method. This method multiplies the values of the function by alternating coefficients of four and two, and then divides by three times the width of the interval of integration.

ANSWER: **Simpson's** rule

<DB, Science - Other Science - Math>

11. The first factor in this model is positively correlated with intelligence and education. For 10 points each:

[10m] Name this personality model, which Lewis Goldberg extended to non-human primates with the Hominoid Personality Model. This personality model incorporates factors such as Neuroticism and Openness to Experience.

ANSWER: **Big Five** model [accept **FFM**; accept **Five Factor** Model; accept **OCEAN** model or **CANOE** model]

[10e] McCrae and Costa found that the Big Five are stable even across societies that differ in these things. This thing encompasses a society's set of values, beliefs, and practices.

ANSWER: **cultures** [accept **cross-cultural** study]

[10h] Cross-cultural studies avoid the sample bias that comes from using American college students as test subjects.

This five-letter acronym describes the ways in which commonly used samples, like college students, are biased.

ANSWER: **WEIRD** [or **Western, educated, industrialized, rich, and democratic**]

<CB, Social Science - Psychology>

12. Instead of invading Britain, this emperor had his soldiers pick up seashells on the French coast. For 10 points each:

[10e] Name this legendarily unstable Roman emperor. Suetonius claims he planned to appoint his horse Incitatus consul.

ANSWER: **Caligula** [or **Gaius** Julius Caesar Augustus Germanicus]

[10h] This emperor succeeded Caligula. The Lyon Tablet records a speech made by this emperor that argued for people from Gaul to be made senators. He began the Roman invasion of Britain.

ANSWER: **Claudius** [or Tiberius **Claudius** Caesar Augustus Germanicus]

[10m] Caligula acquired the nickname Caligula while campaigning in this Roman province. Tacitus wrote a study of the customs of this province, which was east of Transalpine Gaul.

ANSWER: Magna **Germania**

<KT, History - Ancient History>

13. A member of this family has "murder in her eyes" after her husband gives their son a dollar when she previously refused to give him fifty cents for school. For 10 points each:

[10h] Name this family. The death of Mama's husband allows this family to buy a house and invest in a liquor store, which ends up being a scam created by the "good-for-nothing loud mouth" Willy Harris.

ANSWER: the **Younger** family

[10e] The Younger family leaves their crowded apartment building and moves to Clybourne Park, an all-white neighborhood, in this play by Lorraine Hansberry.

ANSWER: *A **Raisin in the Sun***

[10m] Hansberry based Clybourne Park on Washington Park in this city. Carl Sandburg's poem named for this city calls it the "Hog Butcher, Tool Maker, Stacker of Wheat" and "City of the Big Shoulders."

ANSWER: **Chicago**, Illinois

<PS, Literature - Drama>

14. Answer the following about the intersection of country music and drag, for 10 points each.

[10h] This drag performer once fell off a stage while lip-synching "9 to 5." Her debut album *Two Birds* was followed by *One Stone*, which was released the day she won the third All Stars season of *RuPaul's Drag Race*.

ANSWER: **Trixie Mattel** [accept Brian **Firkus**]

[10m] The pseudonymous country artist Orville Peck, who featured drag artists in his song "Queen of the Rodeo," lives in this country. Shania Twain is another country artist from this country.

ANSWER: **Canada**

[10e] This singer dressed in drag as Nicki Minaj for Halloween, and freaked out some Christians with the video for his song "Montero (Call Me By Your Name)." He's best known for the country hit "Old Town Road."

ANSWER: **Lil Nas X** [accept Montero Lamar **Hill**; do not accept or prompt on "Lil Nas the Tenth"]

<AJJ, Pop Culture - Pop Music>

15. This orchestral piece was featured in the film *Birth of a Nation*, befitting its composer's anti-Semitic views. For 10 points each:

[10m] Name this short excerpt from the second opera in *The Ring Cycle*. This piece features soaring brass melodies that depict the sisters of Brünnhilde as they prepare to transport the fallen to Valhalla.

ANSWER: "**Ride of the Valkyries**" [or "**Flight of the Valkyries**"; or "**Walkürenritt**"; or "**Ritt der Walküren**"]

[10e] This German composer wrote *The Ring Cycle*. He also composed the "Bridal Chorus" for his opera *Lohengrin*.

ANSWER: (Wilhelm) Richard **Wagner**

[10h] The first performance of *The Ring Cycle* took place at a theater in this Bavarian city. Wagner's operas are performed in an annual festival that takes place in and is named for this city.

ANSWER: **Bayreuth** [accept **Bayreuth** Festival]

<CL, Arts - Other Arts - Opera>

16. The first law of thermodynamics is a restatement of the conservation of this quantity. For 10 points each:

[10e] Name this quantity. Its kinetic form is fully conserved in perfectly elastic collisions, but in inelastic collisions, some of it dissipates as heat.

ANSWER: **energy** [accept kinetic **energy** or thermal **energy**; accept "law of conservation of **energy**" or "**energy** conservation"]

[10m] The law of conservation of energy arises from invariance in this coordinate in Lagrangian mechanics. The second law of thermodynamics acts as an "arrow" of this coordinate that cannot move backwards.

ANSWER: **time** [prompt on *t*]

[10h] The aforementioned relationship between conservation of energy and time invariance was discovered by this physicist. This physicist's theorem about conservation laws is part of the foundation of mathematical physics.

ANSWER: Emmy **Noether** ("NUR-tuh") [or Amalie (Emmy) **Noether**; accept **Noether**'s theorem or **Noether**'s first theorem]

<SB, Science - Physics>

17. Jose Amestoy was murdered in Jamaica while sleeping in a hammock when the assassin mistook him for this target. For 10 points each:

[10m] Name this man, known as "the Liberator," who fled to Jamaica to avoid persecution by colonial authorities. This man issued a "Decree of War to the Death" and served as the first president of Gran Colombia.

ANSWER: Simón **Bolívar** [or Simón José Antonio de la Santísima Trinidad **Bolívar** y Palacios Ponte-Andrade y Blan]

[10e] Bolivar declared independence from this country, the colonial power in most of Latin America.

ANSWER: Kingdom of **Spain** [or **Spanish** Empire]

[10h] During the attempt to free Peru, Bolívar met with this man during the Guayaquil Conference. This Argentine revolutionary had earlier liberated Chile at the battles of Chacabuco and Maipú.

ANSWER: José de **San Martín** [or José Francisco de **San Martín** y Matorras]

<KT, History - World History>

18. In this novel, a murdered man's father is inspired by the writings of his son and Abraham Lincoln to give the village of Ndotsheni ("in-doh-CHAY-nee") milk, a dam, and a church. For 10 points each:

[10m] Name this novel by Alan Paton in which Stephen Kumalo's son Absalom is hanged after shooting the activist Arthur Jarvis in an attempted burglary.

ANSWER: ***Cry, the Beloved Country***

[10h] Absalom originally went to Johannesburg to find this sister of Stephen Kumalo. This woman lives in "the garbage-heap of the proud city" where she has become a prostitute and liquor-seller.

ANSWER: **Gertrude** Kumalo

[10e] Gertrude briefly considers becoming a "sister" in this profession, thinking it may help "a weak woman" who "[laughs] and [speaks] carelessly." The Mexican poet Sor Juana lived in a Hieronymite convent of this profession.

ANSWER: Christian **nuns**

<PS, Literature - Long Fiction>

19. In March 2020, a patrol boat from this country attempted to ram a cruise ship, but ended up tearing a hole in its hull and sinking itself. For 10 points each:

[10e] Name this country that claimed the cruise ship might have been carrying foreign mercenaries. Millions of refugees from this country have left spiraling inflation in cities like Caracas and fled to neighboring Colombia.

ANSWER: **Venezuela** [or the Bolivarian Republic of **Venezuela**]

[10m] Private mercenaries did attempt to overthrow this successor of Hugo Chávez in May 2020, but bungled the invasion. This former bus driver is the current president of Venezuela, though he is opposed by Juan Guaidó ("gway-DOH").

ANSWER: Nicolás **Maduro** [or Nicolás **Maduro** Moros]

[10h] In August 2018, Maduro was the alleged target of an attack by two of these devices. The Houthis ("HOO-theez") in Yemen have used these devices to attack Saudi Arabian oil fields.

ANSWER: **drone** [prompt on **bomb** or other **explosives**; accept specific types of drones; accept **unmanned aerial vehicle** or **UAV**]

<CC, The World - Current Events>

20. This ruler was opposed by the Legitimists before, during, and after his reign. For 10 points each:

[10h] Name this French monarch who came to power on the back of the July Revolution in 1830 and was toppled during the Revolution of 1848. He was known as the "Citizen King."

ANSWER: **Louis Philippe I**

[10m] Louis Philippe was a member of this royal house that succeeded the House of Bourbon. This house takes its name from a city whose siege during the Hundred Years' War was lifted by an army including Joan of Arc.

ANSWER: House of **Orleans**

[10e] Louis Philippe's successor was the nephew of this man. Pope Pius VII crowned this man Emperor of the French in 1804.

ANSWER: **Napoleon** Bonaparte [or Napoleon **Bonaparte**]

<AJai, History - European History>

21. Neutrophils and lymphocytes are this type of blood cell. For 10 points each:

[10e] Name these blood cells that are part of the immune system. Unlike red blood cells and platelets, these cells have nuclei.

ANSWER: **white** blood cells [or **leukocytes**]

[10m] This type of lymphocyte has CD4+ ("CD-four-positive") helper and CD8+ ("CD-eight-positive") cytotoxic varieties. These cells mature in the thymus.

ANSWER: **T** cells

[10h] Cytotoxic T cells distinguish self from non-self cells by the class I ("one") variety of these molecules. These surface proteins present antigens to T cells.

ANSWER: **major histocompatibility complex** molecules [or **MHC** molecules; accept **human leukocyte antigen** molecules or **HLA** molecules; accept **MHC** class **I** molecules or **MHC** class **II** molecules]
<AZ, Science - Biology>

22. Name some things about a certain field of linguistics. For 10 points each:

[10m] Noam Chomsky wrote about the “structures” of this field of linguistics, which studies the rules that cover the construction of sentences in a language.

ANSWER: **syntax**

[10h] This syntactic theory was created by Chomsky to account for the nesting of multiple syntactic categories under one head. This theory introduces specifier nodes as complements to the namesake abstract structure.

ANSWER: **X-bar** theory

[10e] Chomsky’s term “poverty of the stimulus” refers to the gap between the sentence structures that people in this stage hear and what they produce. First language acquisition typically occurs in this stage of life that follows infancy.

ANSWER: **childhood** [accept **children** or **kids**; accept **toddlers**; do not accept or prompt on “infants”]

<CA, Social Science - Other Social Science>

23. Many of these works show a woman with a monkey, while another alludes to the artist’s traumatic bus accident at age eighteen. For 10 points each:

[10m] Name these works of art that include *The Broken Column* and *The Wounded Deer*, many of which highlight a distinctive facial feature.

ANSWER: **self-portraits** by Frida **Kahlo** [prompt on **portraits** or **portraits of Frida Kahlo** or **portraits by Frida Kahlo** by asking “what type of portraits are these?”; prompt on **self-portraits** by asking “whose self-portraits?”]

[10e] Frida Kahlo and her husband, the muralist Diego Rivera, are from this country, many of whose artists depict this country’s Day of the Dead.

ANSWER: **Mexico**

[10h] In another self portrait, two versions of Kahlo sit and hold hands, with this body part exposed. A common Keith Haring motif includes two people in black and white holding a red drawing of this body part.

ANSWER: **heart** [accept **circulatory** system, since more is exposed in *Two Fridas*]

<DM, Arts - Painting>

24. Answer the following about the Christian liturgical calendar, for 10 points each.

[10e] This holiday is preceded by Lent and Holy Week and celebrates the resurrection of Jesus Christ.

ANSWER: **Easter** [accept **Pascha**]

[10h] This holiday commemorates the descent of the Holy Spirit on the Apostles, as described in Acts. It occurs 50 days after Easter Sunday, and is sometimes referred to as Whitsunday, especially in the UK.

ANSWER: **Pentecost**

[10m] In addition to the major holidays, many Christian denominations acknowledge these lesser holidays that commemorate particular saints. In Russian Orthodoxy, these days are organized into great, middle, and minor types.

ANSWER: **feast** days [or **feasts**]

<WY, Religion - Christianity>