

**Bulldog High School Academic Tournament 2021 (XXX): “I feel like ACF Regionals 2021 is a confusing subtitle for a set that’s not ACF Regionals 2021.”**

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**Packet 2 Tossups**

1. **Explosive Brock, Pomeroy, and Buckingham bullets were invented to destroy these objects, which were called “baby-killers” in World War I propaganda. William Randolph Hearst provided half the funds for one of these objects, which are named for their inventor, to circumnavigate the globe in 1929. LZ 127 was the largest of these objects belonging to DELAG, which was the first commercial (\*) transit service to use these vehicles. Herbert Morrison cried “Oh, the humanity!” while reporting on the destruction of one of these vehicles in 1937. For 10 points, identify these rigid airships named for a German count, the most famous of which was the *Hindenburg*.**

ANSWER: **zeppelins** [prompt on airships or dirigibles; do **NOT** accept or prompt on “blimps”] (JS)

2. **A filamentous variety of these organisms is used in a technique that correlates genes with resultant proteins; that is these organisms’s namesake “display.” The relative concentrations of cro and cI [“SEE-one”] repressors determine the life cycle of one of these organisms discovered by Esther Lederberg. A DNA ligase commonly used in laboratories is isolated from a prototypical one of these organisms with an (\*) icosahedral “head” and a hollow “injecting” tail. That T4 variety of these organisms infects certain cells via the lytic cycle, while the lambda variety can also lie dormant in the lysogenic cycle. For 10 points, name these viruses that prey on bacteria.**

ANSWER: bacteriophages [accept **phage** display; accept specific types like filamentous bacteriophage, lambda bacteriophage, or T4 bacteriophage; prompt on viruses before mention; prompt on lambda or T4 alone] (HK)

3. **This artist appears in a red latex drag outfit in a 2020 music video which closes on a message translating to, “If she doesn’t want to dance with you, respect her, she twerks alone.” In another performance, this artist wore a skirt, a pink jacket, and a shirt reading “They killed Alexa, not a man in a skirt.” Dua Lipa sings “One day you’ll love me for sure” on J Balvin’s (\*) “UN DIA,” in which she, Tainy, and this artist feature. Known for his wild sunglasses and manicured nails, this artist collaborated with Drake on “Mia.” This man’s song “Pero Ya No” appeared in a Joe Biden campaign ad. For 10 points, name this reggaeton singer of “DÁKITI,” “Callaíta,” and “Ignorantes.”**

ANSWER: **Bad Bunny** [or Benito Antonio Martínez **Ocasio**] (HK)

4. **Joan Vila-Grau created works in this medium that are displayed against concrete construction and include the blue-themed “Water of Life.” An angelic face emerges from flowers to kiss a child at the center of a blue work in this medium. A trio of works in this medium on the west, north, and south facades of one building survived an April 2019 fire. Dag Hammarskjöld [“HAM-ur-shoold”] was honored with a work in this medium by Marc (\*) Chagall. Brilliant hues of the “Blue Virgin” piece in this medium found in the Chartres cathedral were obtained by adding cobalt to a clear soda-lime base. For 10 points, name this medium often used in colorful namesake windows, like those of Notre Dame.**

ANSWER: **stained glass** [prompt on glass; prompt on (rose) windows by asking “what material are they made of?”] (HK)

5. In the Orthodox Christian version of this practice, the Dance of Isaiah is sung during a procession around the analogion, and the participants are crowned with *stefana*. A 2019 synod suggested that men who have undergone this practice could fill a certain job in the Amazon region. A passage about a “resounding gong or a clanging cymbal” is often read at these events, whose Catholic participants prepare with a “Pre- (\*) Cana,” which are named after one attended by Christ at Cana. Unlike Catholic priests, most Orthodox priests receive this sacrament. This practice can be reversed by an annulment. For 10 points, name these events whose participants vow to love each other “til death do us part.”

ANSWER: marriage [or weddings; or matrimony] (MG)

6. A company in this work buys bone charcoal made from the corpses of soldiers dumped in an Italian lake, mirroring the Duke of Squamuglia’s actions in a play staged by Randolph Driblette in this novel. This novel’s protagonist tests a box that supposedly decreases entropy, the Nefastis machine, while in Berkeley to visit the publisher of (\*) *The Courier’s Tragedy*. A muted post horn symbol represents the possibly-fictitious mail company Trystero in this novel, which ends just before the title auction of Pierce Inverarity’s stamp collection. Oedipa Maas is the protagonist of, for 10 points, what postmodernist novel by Thomas Pynchon?

ANSWER: *The Crying of Lot 49* (MGS)

7. The Vodou deity Ayida-Weddo represents this phenomenon. The sword of Fergus mac Róich, Caladbolg, can grow to the size of this phenomenon. A figure named for this phenomenon releases water by tickling the bellies of frogs, and swallows the Wawalag sisters. A faketoric account appropriating Native American culture describes warriors of this phenomenon, inspiring the name of a (\*) Greenpeace ship. A serpent of this phenomenon creates songlines during the Dreamtime of the Australian Aborigines. A goddess of this phenomenon serves as a messenger of the Greek gods. For 10 points, Midgard and Asgard are connected by a bridge of what phenomenon called Bifröst?

ANSWER: rainbows (AY)

8. In one context, this quantity’s mean value is 13% greater than its most probable value, which equals the square root of “ $2 RT$  over  $M$ .” A fluid’s dynamic pressure equals density times this quantity squared over two. This quantity is divided by a constant to obtain relativistic beta. The particles of an ideal gas follow the Maxwell–Boltzmann distribution for this quantity, which increases as a fluid’s (\*) pressure decreases according to Bernoulli’s principle. This quantity is squared and multiplied by half of an object’s mass to give its kinetic energy. For 10 points, name this quantity that measures the distance traveled by an object per unit time in meters per second.

ANSWER: speed [accept velocity; prompt on  $v$ ] (SE)

9. In 2020, this country passed a 3% wealth tax on its 12,000 richest citizens to fund COVID relief. In 2012, Paul Singer’s NML Capital seized a ship belonging to this country from a Ghanaian port, eventually securing the repayment of debt that this country defaulted on in 2001. Activists in this country were the first to use green handkerchiefs to support a goal achieved in 2020, the (\*) legalization of abortion until the 14th week of pregnancy. Shortly after becoming president of this country, Alberto Fernández was visited by its native son, Pope Francis. For 10 points, name this country, where the recently deceased Diego Maradona lay in state in Buenos Aires.

ANSWER: Argentina [or Argentine Republic; or República Argentina] (MGS)

10. This technique was used to reproduce the random arrangement of squares in a Jean Arp composition. Another work created with this technique depicts a black silhouette with a red dot for a heart against a starry blue sky. In addition to *Icarus*, the same artist also created *Blue Nudes* with this technique. A work created with this technique features a woman wearing a lampshade and a bodybuilder holding a (\*) Tootsie Pop in Richard Hamilton's *Just what is it that makes today's homes so different, so appealing?* A book titled *Jazz* was created by Henri Matisse with this technique. For 10 points, name this technique of mixed-media assembly, often with cut paper.

ANSWER: **collage** [accept **cut-outs**; prompt on **paper**] (SL)

11. Queshuachaca ["KES-wa-cha-ka"], the last remaining part of one element of this system, is renewed every year. *Apachetas* used as markers in this system were once denounced as pagan. This system, which was partially inherited from the Tiwanaku and Wari people, was maintained by an obligatory labor practice called *mit'a*. The name *Qhapaq Ñan* ["nyan"] referred to either this system or its northern (\*) branch, the most important of its four directional segments. This system was traversed by *Chasqui* messengers, who recorded information with a base-10 system of knots called *kipu*. For 10 points, name this transit system used by both llamas and people to move between cities like Cuzco and Machu Picchu.

ANSWER: **Incan road** system [or **Qhapaq Ñan** before mention; accept **Incan trails**, the **Incan highway** system, or other equivalents; accept **Tawantinsuyu** for "Inca"; accept **Inca rope bridges** before "Apachetas" is read and prompt afterwards; prompt on Peruvian **roads** or equivalents alone by asking "from what civilization?"] (HK)

12. In a poem in this language, the speaker concludes that "No hand will...argue with me over your handful of bones." Another poem in this language says, "I want to live with that dark child / who wanted to cut his heart out on the sea," and is called "Ghazal of the Dark Death." An essay in this language titled for a (\*) holiday claims the author's countrymen "chase after death, mock it, court it, love it, and sleep with it." Another poem in this language calls a lover the "miracle" among "grief and ruins," and repeats the refrain "in you everything sank!" A "Song of Despair" was written in, for 10 points, what Romance language of the poets Gabriela Mistral, Octavio Paz, and Pablo Neruda?

ANSWER: **Spanish** [or **español**; or **castellano**] (HK)

13. The field of affect theory draws on this philosopher's definition of affect as "the modifications whereby the active power of the...body is increased or diminished." Steven Nadler's *A Book Forged in Hell* traces the beginning of the "secular age" to a treatise by this thinker that denies that Moses wrote all of the Torah. This philosopher listed "thought" and extension" as two attributes of a single substance in a book that is often interpreted as equating (\*) God with nature and is organized into definitions "in geometrical order." This author of *Tractatus Theologico-Politicus* was kicked out of his religious community in 1656. For 10 points, name this Jewish Dutch philosopher of *Ethics*.

ANSWER: Baruch **Spinoza** [or Benedict(us) de **Spinoza**] (VS)

14. Using the substitution "y equals this function of theta over two" allows all trigonometric functions to be expressed as rational functions of y, which is known as the Weierstrass substitution trick. The hyperbolic form of this function is a common activation function in neural networks due to its similarity to the (\*) sigmoid function. The slope of a line equals this function of the angle it makes with the y-axis. This function is zero for even multiples of pi over 2 and has asymptotes at odd multiples. The ratio of the lengths of the opposite and adjacent sides of a right triangle equals, for 10 points, what trigonometric function that also equals sine over cosine?

ANSWER: **tangent** (MG)

15. This type of event titles a Vladimir Nabokov novel that follows the teacher Cincinnatus C. as he awaits one of these events. Another work describes an Officer who advocates for the use of a “remarkable apparatus” for these events which consists of a Bed, Harrow, and Inscraper. The title of Sartre’s “The (\*) Wall” refers to a location where these events occur. In one work, a man’s failure to cry at his mother’s funeral is used to argue that he deserves to undergo this event, which nominally occurs for what he did to an Arab on the beach. *The Stranger* ends with Meursault imagining a crowd full of hate at, for 10 points, what type of event that typically follows a death sentence?

ANSWER: executions [or capital punishment; accept equivalents that describe state-sanctioned death; accept *Invitation to a Beheading*; accept death by firing squad or guillotine; prompt on death or death sentence before mention] (MGS)

16. This politician once used chemical symbols to represent his name in campaign materials. This man names America’s premier government scholarship for undergraduate STEM research. In support of this man, another politician delivered the “A Time for Choosing” speech. After arguing that civil rights should be left to the states, this author of *The (\*) Conscience of a Conservative* won his only electoral votes from six southern states. During that election, this man was targeted by an ad showing a girl picking flowers before a nuclear explosion; that was the “Daisy” ad. For 10 points, what Arizona senator was defeated by Lyndon Johnson in the 1964 presidential election?

ANSWER: Barry (Morris) Goldwater (DS)

17. A concertino for this instrument opens with an orchestral descending D major scale and was composed by Cecile Chaminade. Georges Barrère commissioned Edgar Varèse’s *Density 21.5* for this instrument, and also premiered a chromatic line descending from C-sharp to G in one symphonic poem. James (\*) Galway notably plays this instrument. The gizmo key on this instrument’s foot joint extends its range, and it is played through an embouchure hole. The melody begins on this instrument in *Bolero*, and it also opens Debussy’s *Prelude to the Afternoon of a Faun*. For 10 points, name this woodwind instrument, a relative of the piccolo.

ANSWER: transverse flute (AY)

18. This character’s father acquires shares in a Pre-Digested Cheese Trust and argues over the ownership of his daughter with a man who paid him five dollars for her. Later, this character threatens to become an assistant to that man’s Hungarian rival, Nepommuck. Mrs. Eynsford-Hill is shocked by “the new small talk” after this woman exclaims “Not (\*) bloody likely!” to Freddy. This woman is “the most absorbing experiment I ever tackled,” according to a man who takes notes on her accent as she sells flowers at Covent Garden. For 10 points, name this Cockney girl whom Henry Higgins transforms into a lady in George Bernard Shaw’s *Pygmalion*.

ANSWER: Eliza Doolittle [prompt on Doolittle] (MGS)

19. One of the rings in the drug ar·temis·inin is named for containing this many oxygen atoms. Ami·triptyline is one member of a class of antidepressants named for having this many rings. The useless oxygen carrier met·hemoglobin is characterized by the oxidation of (\*) iron in normal hemoglobin to this oxidation number. This is the number of non-hydrogen atoms in an epoxide ring, which is highly strained due to sixty-degree bond angles. The bond order of both diatomic nitrogen and the carbon–carbon bond in an alkyne [“al-KINE”] is this number. For 10 points, name this number of carbon atoms in propane and atomic number of lithium.

ANSWER: three [accept plus three; accept triple bond; do NOT accept or prompt on “minus three”; prompt on tricyclic drugs by asking “how many rings are in those molecules?”; prompt on trioxane ring by asking “how many oxygen atoms are in the ring?”] (HK)

20. *Description acceptable.* **This colony’s John Graham led incursions into a region whose inhabitants later killed 400,000 cattle in a millenarian movement. This colony was founded when the Royal Navy occupied Simon’s Town to prevent Napoleon from using it. Despite its nominal lack of slavery, this colony’s Hottentot Proclamation made all Khoekhoe [“koeh-koeh”] liable to be recruited as laborers. Letsie I, the ruler of (\*) Basutoland, avoided annexation into this colony. Piet Retief led Voortrekkers east from this colony into clashes with Dingane’s Zulu state. This colony’s dominance over Dutch-speaking neighbors sparked the Boer Wars. For 10 points, name this British colony with capital at Cape Town.**

ANSWER: British **Cape Colony** [accept descriptions of British **South Africa**; do **NOT** accept or prompt on any answer including “Dutch” or “Netherlands”; do **NOT** accept or prompt on “Union of South Africa”; do **NOT** accept or prompt on “South African Republic” or anything describing a republic] (DM)

*Tiebreaker*

**“Wild” examples of these objects do not exist in languages like Rust in which “resource acquisition is initialization.” The Boehm garbage collector avoids creating the “dangling” type of these objects by disallowing the use of the “free” function. In C and C++ [“C-plus-plus”], functions with the capacity to alter global variables must be declared with these objects as parameters. The (\*) target of one of these objects can be iterated through an array by performing their namesake “arithmetic.” In C and C++, an asterisk de-references these objects, looking up and returning the data they refer to. For 10 points, name these objects that store the memory addresses of functions or variables.**

ANSWER: **pointers** [accept wild **pointer**s or dangling **pointer**s; prompt on references] (MG)

## Packet 2 Bonuses

1. A series of photographs by this artist depicts the life of Ella Watson, a cleaning woman for the Farm Securities Administration. For 10 points each:

[10] Identify this African-American artist. He parodied Grant Wood's *American Gothic* in a photograph of Watson holding a mop and broom beneath a flag.

ANSWER: Gordon **Parks** [or Gordon Roger Alexander Buchanan **Parks**]

[10] In 1948, Parks joined this now-defunct publication as a staff photographer. This magazine published Robert Capa's D-Day photos, and featured Margaret Bourke-White's photograph of Fort Peck Dam for its first issue.

ANSWER: **LIFE Magazine**

[10] In 1952, Parks captured a series of photographs for *LIFE Magazine* inspired by this Ralph Ellison novel. In one photo, a man reminiscent of this novel's unnamed protagonist listens to a phonograph amid numerous lightbulbs.

ANSWER: **Invisible Man** (SL)

2. Answer the following about the life of the chemist Minoru Tsutsui ["soot-soo-ee"], for 10 points each.

[10] Tsutsui was born in this country and served in its Imperial Navy during World War II. This country's chemistry Nobel laureates include Akira Suzuki and Ryōji Noyori.

ANSWER: **Japan** [or **Nippon**; or **Nihon**; accept Empire of **Japan**]

[10] With his Yale advisor Harold Zeiss, Tsutsui proposed a "sandwich" structure for organochromium ["organo-kro-mee-um"] compounds. The first sandwich structure to be confirmed was this compound with an iron center and two cyclopentadienyl ["cyclo-penta-di-ee-nil"] rings.

ANSWER: **ferrocene**

[10] After getting his Ph.D., but before rejoining academia, Tsutsui worked at this company. Acquired by Bayer in 2018, this company manufactures the herbicide Roundup and controversial genetically modified seeds.

ANSWER: **Monsanto** Company [accept **Monsanto** Chemical Company] (MP)

3. Queen Guinevere grants a rapist knight one year to discover what women most desire. For 10 points each:

[10] Name that thing which women most desire, as the knight finds out from an old crone he's forced to marry. When he puts his knowledge of this thing into practice, the crone he married turns into a beautiful woman.

ANSWER: **sovereignty** [accept **mastery**]

[10] That story occurs as part of this Middle English collection of stories by Geoffrey Chaucer that is narrated by a band of pilgrims.

ANSWER: **The Canterbury Tales**

[10] The knight finds out what women most desire in a tale told by this pilgrim in *The Canterbury Tales*. This woman has been married to three good, and two bad, husbands.

ANSWER: **Wife of Bath** [accept **Alyson** or **Alys**] (HK)

4. In the first saying of the collection *The Gateless Gate*, Zhaozhou is asked whether a dog has the "nature" of one of these figures. For 10 points each:

[10] Name this sort of person. Another saying advises, "If you meet [this person] on the road, kill him."

ANSWER: **Buddha** [accept **Buddha**-nature, **Buddha**hood, or **Tathāgatagarbha**]

[10] Those sayings are examples of koans, paradoxical statements that test practitioners of this East Asian Buddhist school. This school emphasizes meditation and is particularly popular in Japan.

ANSWER: **Zen** Buddhism [or **Chan** Buddhism; prompt on **Mahayana** Buddhism]

[10] Zhaozhou answers the question about the dog's "buddha-nature" by saying *wu*, a popular term in Zen philosophy that can be translated as this noun. This is the second title concept of Jean-Paul Sartre's magnum opus.

ANSWER: **nothingness** [accept *Being and Nothingness* or *L'Être et le néant*] (MGS)



5. On October 7, 2020, this organization was found guilty of operating as a criminal organization dressed in the mantle of a political party. For 10 points each:

[10] Name this far-right political party implicated in the 2013 murder of rapper Pavlos “Killah P” Fyassas.

ANSWER: Popular Association – **Golden Dawn**

[10] The Golden Dawn is a far-right party in this country, which is currently led by Prime Minister Kyriakos Mitsotakis.

ANSWER: **Greece** [or **Hellas**; or **Hellenic Republic**]

[10] The Golden Dawn is implicated in a 2013 attack on the consul-general of this country. They also protested a Greek channel airing the TV drama *Muhteşem Yüzyıl* from this country by urinating on the channel's door.

ANSWER: **Turkey** [or Republic of **Turkey**; or **Türkiye Cumhuriyeti**] (JS)

6. The first of these institutions in one city was actually created by the Armenian spy Diodoto, contrary to legends about Georg Kolschitzky. For 10 points each:

[10] Name these institutions that became centers of social life, providing newspapers, cards, and chess. The Griensteidl, Central, and Herrenhof ones became prominent gathering spots for writers.

ANSWER: **coffeehouses** [accept **coffee shops**, **cafés**, or any answer indicating a place where **coffee** is **drunk**; accept but do **NOT** otherwise reveal Vienna **coffeehouses**]

[10] Kolschitzky purportedly began the first coffeehouse in his city after retreating soldiers left coffee after this 1683 event, in which the winged hussars of Jan Sobieski ended a siege to the “Red Apple of the West.”

ANSWER: Siege of **Vienna**

[10] The kipferl, which became this French pastry, was legendarily invented after the Siege of Vienna to celebrate bakers who caught Ottomans tunneling under the city. Its shape mimics the Islamic crescent.

ANSWER: **croissant** (DM)

7. This commodity was often compared to the night sky and stars due to its similar colors. For 10 points each:

[10] Name this commodity, a deep blue stone often streaked through with gold. It’s not turquoise, but it was commonly used in Ancient Egypt for amulets and later used to make the dye ultramarine.

ANSWER: **lapis lazuli**

[10] Most lapis was, and still is, mined in this mountain range. Tirich Mir is the highest peak in this mountain range which also contains the city of Bagram.

ANSWER: **Hindu Kush**

[10] Afghanistan was also an important ancient center for the mining of this metal, which with copper is used to make bronze.

ANSWER: **tin** [accept **Sn**] (HK)

8. In Maori tradition, Tāne accomplished this action by forcing apart his parents, Rangi and Papa. For 10 points each:

[10] Name this process, which a god of wind named Shu also carried out at the command of an enraged Ra to punish a goddess who’d obtained five extra days during which to have children.

ANSWER: **separation** of the **sky** and **earth** [accept any reasonable equivalent; accept **heaven** for “sky”; prompt on **separation** of **Geb** and **Nut** by asking “what do Geb and Nut represent?”]

[10] The Chinese goddess Nüwa propped the sky up above the earth with the legs of a black one of these animals. Hermes strung gut across a different body part of this animal to create the first lyre.

ANSWER: **turtles** [or **tortoises**]

[10] Separation myths often require archetypal world-parents, such as Ouranos and this primordial goddess of the earth, Ouranos’s mother and wife.

ANSWER: **Gaia** [or **Gaea**] (HK)

9. Air moving towards the Equator at the lower edge of the tropical Hadley cells is deflected by the Coriolis force, producing these winds. For 10 points each:

[10] Name these permanent winds that flow from east to west between 30 degrees north and south latitudes.

ANSWER: **trade** winds [or **easterlies**; prompt on **prevailing** winds]

[10] The trade winds are the main drivers of one of these phenomena in the Eastern Pacific named for Alexander von Humboldt. The Peruvian coast is continually bathed in cool water by that one of these large-scale flows.

ANSWER: ocean **currents** [accept Humboldt **Current**]

[10] The Humboldt Current also contributes to this phenomenon in which cold, deep water rises to the surface, displacing warmer water and supplying nutrients to marine life.

ANSWER: **upwelling** (DR)

10. Louise Mallard dies “of heart disease – of the joy that kills” after witnessing this event. For 10 points each:

[10] Describe this event, which nullifies Louise’s earlier assertion that she was “Free! Body and soul free!” This event contradicts two telegram reports received by Richards at the start of the story in which it occurs.

ANSWER: Louise’s **husband returns home** alive [accept any description involving her **husband** being **alive**; accept Mr. **Mallard** or **Bentley** Mallard for “Louise’s husband”]

[10] Louise dies at the end of “The Story of an Hour,” a work by this American author who also wrote a story in which Armand rejects his wife Désirée for giving birth to a dark-skinned baby.

ANSWER: Kate **Chopin** [accept Katherine **O’Flaherty**]

[10] This novel, Chopin’s most famous, centers on Edna Pontellier’s unhappy marriage and growing independence from her husband Léonce.

ANSWER: *The **Awakening*** (MGS)

11. In one song about these kinds of people, the singer laments that “Women like hunting witches too.” For 10 points each:

[10] Give the exact two word phrase for these people, who title a song which claims that “no one likes a [this kind of person].” In another song, the superlative person of this type “had a marvelous time ruining everything.”

ANSWER: **mad women** [or “**mad woman**” or “the **maddest woman** this town has ever seen”]

[10] A whole host of madwomen populate the discography of this superstar artist of the surprise album *folklore*, whose other hits include “Love Story” and “You Need to Calm Down.”

ANSWER: Taylor Alison **Swift**

[10] Swift caricatures misogynist media depictions of herself as a hysterical “nightmare dressed like a daydream” in this song. In it, she laughs about her “long list of ex-lovers” who’ll “tell you [she’s] insane.”

ANSWER: “**Blank Space**” (HK)

12. A seven-story Rain Vortex, the world’s largest indoor waterfall, emerges from an oculus in a glass and steel ceiling amid Shiseido Forest Valley at a retail complex contained within one of these places. For 10 points each:

[10] Name these places, the aforementioned Changi example of which also contains a butterfly garden. Rows of white tents atop another of these places in Denver are meant to evoke the nearby Rocky Mountains.

ANSWER: **airports** [or airport **terminals**; accept Singapore Changi **Airport** or Jewel Changi **Airport** or Denver **International Airport** or Kansai International **Airport**]

[10] The Rain Vortex was designed by Moshe Safdie in an airport of this city-state, which is also home to many merlion statues. Safdie designed this city-state’s Marina Bay Sands resort with a skypark that spans three towers.

ANSWER: Republic of **Singapore**

[10] Zaha Hadid designed a recently-opened airport with concourses radiating out in a starfish-shaped pattern in this city. Criss-crossing steel beams comprise the Bird’s Nest stadium, where the 2008 Olympics were held, in this city.

ANSWER: **Beijing** (AY)



13. This physicist proposed the “totalitarian principle” that “whatever is not forbidden is compulsory,” or in other words, whatever can exist does exist. For 10 points each:

[10] Name this physicist who developed a set of eight 3-by-3 Hermitian matrices used to describe the strong force. He took the name for another of his discoveries from James Joyce’s *Finnegans Wake*.

ANSWER: Murray **Gell-Mann**

[10] Gell-Mann coined the name for these elementary particles, which come in six flavors. A proton is made of two “up” and one “down” examples of these subatomic particles.

ANSWER: **quarks**

[10] Gell-Mann and Richard Feynman developed a “vector-minus-axial-vector” theory to explain the Wu experiment’s observation of parity violation by this fundamental force.

ANSWER: **weak** force [or **weak** nuclear force; or **weak** interaction] (DM)

14. After the death of his wife, this composer published the *Lamento d’Arianna* as a five-voice madrigal in his sixth book of them, which also includes a sestina lamenting the death of a young prima donna. For 10 points each:

[10] Name this composer, who in total wrote nine books of madrigals. This composer also included the foreboding aria “Possente spirto” in his *L’Orfeo*, the earliest surviving opera still performed regularly today.

ANSWER: Claudio **Monteverdi** [or Claudio Giovanni Antonio **Monteverdi**]

[10] Monteverdi included a penultimate section on “Ave maris stella” in a choral setting of this namesake prayer service for the *Blessed Virgin*. Monteverdi concluded his setting of this service with a seven-voice Magnificat.

ANSWER: **Vespers** for the *Blessed Virgin* [accept **Vespro della Beata Vergine** or **Vespers of 1610**]

[10] In his later life, Monteverdi moved away from the “equal-voiced” Renaissance version of this compositional technique. Palestrina’s *Pope Marcellus Mass* allegedly prevented this technique from being banned by the church.

ANSWER: **polyphony** [accept word forms] (AY)

15. At the Second Continental Congress, a member of this family proposed a namesake resolution that called for American independence. For 10 points each:

[10] Name this influential Virginia family, whose members included Richard Henry, later the President of the Continental Congress. A member of this family named Robert led the Confederacy’s Army of Northern Virginia.

ANSWER: **Lee** [accept Richard Henry **Lee**; accept Robert E(dward) **Lee**]

[10] This president was a member of the Lee family. This president, during whose administration the Clayton-Bulwer Treaty was passed, was the first to be elected without having held prior political office.

ANSWER: Zachary **Taylor**

[10] Edward Douglass White, a member of the Lee family, served on the Supreme Court for three decades. He was in the majority in this case, in which John Harlan, the sole dissenter, wrote that the “constitution is color-blind.”

ANSWER: **Plessy** v. **Ferguson** [accept either underlined name; accept names in either order] (MP)

16. Deborah Smith has been criticized for her most famous instance of performing this act. For 10 points each:

[10] Name this act that Charse Yun contends Smith performed unfaithfully. Other people known for doing this include Margaret Sayers Peden and Donald Keene.

ANSWER: literary **translation** [accept word forms like **translator**; accept, but do **NOT** otherwise reveal more specific answers like **translating** into English from Korean, Spanish, or Japanese]

[10] Smith translated Han Kang’s *The Vegetarian* from this language. Jamie Chang translated Cho Nam-joo’s controversial novel about everyday misogyny, *Kim Ji-young, Born 1982*, from this language as well.

ANSWER: **Korean** [or **hanguk-eo**; or **hanguk-mal**; or **uri-mal**; or **guk-eo**]

[10] *Kim Ji-Young* takes the form of the notes of one of these people. In *The Vegetarian*, one of these people attempts to force-feed the thrashing protagonist, Yeong-hye, as others hold her down and her sister watches.

ANSWER: **psychiatrists** [prompt on **doctors**] (HK)

17. Dancers known as *diablito* or *ñáñigos* [“nya-NYEE-gos”] performed in checkered outfits with conical hats on this holiday. From 10 points each:

[10] Name this holiday, during which members of Abakuá, an all-male religious secret society, perform in public. Water is blessed on this post-Christmas holiday commemorating a visit from Caspar, Melchior, and Balthasar.

ANSWER: **Epiphany** [accept **Theophany** or **Día de los Reyes** or **Three Kings’ Day**]

[10] Elements of Abakuá rhythmic ensembles, including clave rhythms, influenced the development of this danced musical genre. This musical genre’s guaguancó subgenre features a style developed in Matanzas.

ANSWER: **rumba**

[10] Abakuá and rumba inspired by it developed in this Caribbean country, where many adherents of Santería worship the orichá in the provinces of Havana and Matanzas.

ANSWER: **Cuba** (AY)

18. One man of this family was the lover of Queen Isabella and invaded England, ruling the country at the start of Edward III’s reign. For 10 points each:

[10] Name this family of Roger, the first Earl of March. A later member of this family, Edmund, aided Glendower’s revolt after being captured by him.

ANSWER: **Mortimer** [accept Roger **Mortimer** or Edmund **Mortimer**]

[10] The Mortimers were Marcher Lords, meaning that they held land along the border between England and this state to its west. By some measures, Owen Glendower was the last native prince of this state.

ANSWER: **Wales** [or **Cymru**]

[10] Edmund Mortimer and Glendower plotted to overthrow a king of this name, nicknamed Bolingbroke. An earlier Mortimer killed Simon de Montfort to end the Second Barons’ War against the previous king of this name.

ANSWER: **Henry** [accept **Henry III** or **Henry IV**] (DM)

19. This syndrome is characterized by a CD4+ cell count of below 200 cells per microliter. For 10 points each:

[10] Name this severe condition found in some HIV-positive patients.

ANSWER: **AIDS** [or **acquired immunodeficiency syndrome**; prompt on **immunodeficiency**]

[10] Patients with AIDS often develop infections of this type due to their immunocompromised status. Cytomegalovirus and Kaposi’s sarcoma are AIDS diagnosis-defining viral infections of this type.

ANSWER: **opportunistic** infections

[10] Other opportunistic infections common in patients with AIDS include cryptococcal meningitis and candidiasis [“can-did-EYE-ah-sis”], both of which are caused by these kinds of infectious agents.

ANSWER: **fungi** [or **fungus**; or **fungus** meningitis] (HK)

20. Eavan [“EY-ven”] Boland’s “Quarantine” describes a couple dead “Of cold. Of hunger. Of the toxins of a whole history” during a famine named for this crop. For 10 points each:

[10] Name this crop. “By God, the old man could handle a spade” digging up this crop in a poem collected in *Death of a Naturalist*.

ANSWER: **potatoes** [accept the Irish **potato** famine]

[10] This Irish Nobel laureate compared his writing process to his father’s potato farming in “Digging.” He rendered “hwæt,” [“HWAT”] the first word of Old English *Beowulf*, as “So” in an acclaimed 1999 translation.

ANSWER: Seamus (Justin) **Heaney**

[10] Instead of “What ho!” “Listen!” or even “So,” as favored by some of the male translators before her, Maria Headley opens her new feminist translation of *Beowulf* with this satirical word.

ANSWER: “**Bro!**” (DS)

*Tiebreakers*

This chant emerged after the *Buffalo Evening Telegraph* published a scathing moralistic exposé in July 1884. For 10 points each:

[10] Give this five-word chant, which Republican supporters used to mock a presidential candidate who had reportedly fathered an illicit child with Maria Halpin.

ANSWER: “**Ma! Ma! Where’s my Pa?**”

[10] Despite the slogan, this man won the presidency in 1884, leading his supporters to respond that he had “gone to the White House, ha ha ha!” This man served the only non-consecutive presidential terms in American history.

ANSWER: Grover **Cleveland** [or Stephen Grover **Cleveland**]

[10] This man was Cleveland’s opponent in the 1884 election. The “Mulligan Letters,” which showed the scandalous business deals of this “plumed knight” in the railroad industry, repeatedly torpedoed his electoral hopes.

ANSWER: James Gillespie **Blaine** (VS)