

LONE STAR

Head Edited by Daniel Ma. Edited by Daniel Ma, Thomas Gioia, Michael Yue, Roman Madoerin, Dr. Eric Mukherjee, Robert Condron, Sean Doyle, and Michael Patison. Written by the editors, Jisoo Yoo, Johnny Vasilyev, Nikita Nair, Aayush Goodapaty, Josh Rubel, Ketan Pamurthy, Ned Tagtmeier, Akshay Shyam, and Michael Artlip. Playtested by Dean Ah Now, Hari Parameswaran, and Rohan Venkateswaran.

Packet 2

Only read this packet if the last tossup of the previous round was Great Society.

TOSSUP 1

Advertisements for “Alice's Adventures in the New Wonderland” were used to attract tourists to this park. “The Perfect Crime” explains how there is no legal jurisdiction within this park’s “Zone of Death.” This park’s Morning Glory Pool is home to bacteria that turn the water (*) blue and yellow. In 1995, wolves were reintroduced to this park, the only place in the US where bison never went extinct. This National Park is located on the largest volcano in the US. For 10 points, name this park home to the geyser Old Faithful.

ANSWER: Yellowstone National Park <Goodapaty>

BONUS

Tensile testing is an essential characterization technique used to determine the mechanical properties of materials. For 10 points each:

[10] Name this quantity that is plotted versus strain during a tensile test. It is equal to the force applied divided by the cross-sectional area of the material.

ANSWER: stress

[10] Tempering the martensitic form of this material increases its ductility, a property measured during tensile testing. It is made of iron and carbon, and sometimes other elements are added to make its “stainless” variety.

ANSWER: steel

[10] This region of a stress-strain curve occurs before the yield point. There is no permanent deformation in this region.

ANSWER: elastic region <Madoerin>

TOSSUP 2

One poem by this author describes a “horrible thing / which raced sideways while blowing bubbles” during the title characters’ beach trip. Another of this author’s poems repeats different permutations of the phrases “spring summer autumn winter” and “sun moon stars rain.” This poet of (*) “maggie and milly and molly and may” wrote of someone “more brave than me:more blond than you” in another poem. For 10 points, name this American poet of “anyone lived in a pretty how town” and “i sing of Olaf glad and big,” known for his lack of capitalization.

ANSWER: Edward Estlin Cummings <Yoo>

BONUS

One of the deadliest of these events occurred in Odessa after the Revolution of 1905. For 10 points each:

[10] Name these events in which people living in the Pale of Settlement were persecuted. Many fled to the US, leading to a large influx of a new religion into New York City.

ANSWER: **pogroms** [prompt on descriptions of persecution of Jews by asking for a specific term]

[10] Many of the deadliest pogroms and waves of subsequent emigration occurred in this modern country, whose city of Odessa is its third largest after Kharkiv and Kiev.

ANSWER: **Ukraine**

[10] The most widespread pogroms at the turn of the 20th century occurred during the rule of this tsar, whose prime minister Sergei Witte failed to reform the constitution with his October Constitution in 1905.

ANSWER: **Nicholas II** [prompt on Nicholas] <Ma>

TOSSUP 3

One of these pieces has the right hand jump between a descending G-sharp minor melody and a high D-sharp. Carl Czerny, known for composing many of these pieces, was the dedicatee of a set of them containing “Mazeppa,” namely the twelve (*) *Transcendental [these pieces]*. A set of six “Grande [these pieces]” based on works by Niccolo Paganini includes “La Campanella” and is by Franz Liszt. For 10 points, what pieces often called “studies” are intended for practicing and mastering certain skills on the piano?

ANSWER: piano **etudes** [prompt on study before mention] <Vasilyev>

BONUS

This man was known as the “little giant” for his political prowess and diminutive stature. For 10 points each:

[10] Name this Illinois Democratic senator who famously defeated Abraham Lincoln in a campaign featuring six open-air policy debates, whose format now bears their names. He later lost the Election of 1860 to Lincoln.

ANSWER: Stephen **Douglas**

[10] Douglas was instrumental in the passage of this legislation, whose five parts he split into individual bills. These included the admission of California as a free state and allowing Utah and New Mexico popular sovereignty.

ANSWER: **Compromise of 1850**

[10] This New York senator insisted that California be made a state independent of all questions of slavery, in the same speech opposing the Fugitive Slave Act on the grounds that “there is a higher law than the Constitution.”

ANSWER: William **Seward** <Ma>

TOSSUP 4

This value is minimized in the SOFAR channel and can be experimentally measured using a Kundt’s tube. Around this value, a singularity occurs in the Prandtl-Glauert transformation, and flow resistance approaches infinity. One formula to calculate this value sets it equal to the (*) square root of the quantity “bulk modulus over density.” Surpassing this value in air can create vapor cones or shock waves accompanied by a loud boom. For 10 points, identify this speed equal to Mach 1, the speed at which acoustic waves travel.

ANSWER: **speed of sound** [accept **Mach 1** before “Mach” is read] <Pamurthy>

BONUS

This painting is similar to an earlier Giorgione painting depicting the title figure sleeping. For 10 points each:
[10] Name this Renaissance painting that shows two maids rummaging through a chest as the title nude figure reclines on a bed. The figure sensually stares at the viewer and covers her genitalia with her hand.

ANSWER: Venus of Urbino

[10] The *Venus of Urbino* was painted by this Venetian artist, whose other paintings include *Sacred and Profane Love*. He succeeded Giorgione as the most prominent artist of the Venetian school.

ANSWER: Titian Vecellio [accept Tiziano]

[10] The *Venus of Urbino* heavily inspired this artist's Orientalist depiction of a reclining nude with excess vertebrae, titled *La Grande Odalisque*.

ANSWER: Jean Auguste Dominique Ingres ("AHN-gruh" or "ANG") <Vasilyev>

TOSSUP 5

This man and Robert Livingston were the only two US Secretaries of Foreign Affairs. This man ran against George Clinton to become the second governor of New York. This man became ill after writing Federalist Papers 2 through 5, leading Madison and (*) Hamilton to write all the rest, save one. Jeffersonians nationwide burned this man in effigy after he exchanged US debt for British abandonment of the Northwest in a namesake treaty. *Chisholm v Georgia* was decided in 1793 under, for 10 points, what first Chief Justice of the Supreme Court?

ANSWER: John Jay <Goodapaty>

BONUS

In this story, the poisonous title figure's love for Giovanni ends up poisoning him as well, making his breath and touch fatal to creatures near him. For 10 points each:

[10] Name this story that ends with Professor Pietro Baglioni asking "Is *this* the upshot of your experiment?" as the title character dies upon taking an antidote that he provided.

ANSWER: "Rappaccini's Daughter"

[10] This author wrote "Rappaccini's Daughter." This author also wrote a story set in Puritan New England about the Reverend Mr. Hooper and his mysterious title garment in "The Minister's Black Veil."

ANSWER: Nathaniel Hawthorne

[10] In Hawthorne's "Young Goodman Brown," the residents of a Puritan town are discovered to engage in this practice. Arthur Miller's *The Crucible* centers on people accused of this practice in Salem, Massachusetts.

ANSWER: witchcraft [accept black magic or sorcery or voodoo] <Yoo>

TOSSUP 6

This man names a type of backscattering spectrometry used to determine the composition and thickness of thin films. With Soddy, this scientist studied thorium emanation and developed the disintegration theory of radioactivity. An experiment named for this scientist used a zinc sulfide screen to detect (*) alpha particles. That experiment was conducted by his students, Geiger and Marsden, and disproved Thomson's plum pudding model. For 10 points, name this scientist who proposed the atomic nucleus following his namesake "gold foil" experiment.

ANSWER: Ernest Rutherford <Artlip>

BONUS

“The object of this Essay is to assert... [t]hat the only purpose for which power can be rightfully exercised over any member of a civilised community, against his will, is to prevent harm to others.” For 10 points each:

[10] Name this essay championing that “harm principle.” It argues in favor of individualism both as a trait that promotes higher pleasures and as a good mechanism for properly judging whether ideas are good or bad.

ANSWER: On Liberty

[10] This writer of *On Liberty* also argued for equality of women in *The Subjection of Women*, co-written with his wife Harriet Taylor.

ANSWER: John Stuart Mill

[10] Mill also wrote a pamphlet titled for this consequentialist viewpoint. Proponents of this viewpoint, including Mill and Jeremy Bentham, argue that the solution to ethical problems is to strive to maximize happiness.

ANSWER: utilitarianism [accept word forms like utilitarian] <Ma>

TOSSUP 7

In one novel, this author wrote about an adopted son of Frederick Barbarossa who sets out to find the Kingdom of Prester John. In another novel by this author, Simone Simonini writes the eventual Protocols of the Elders of Zion. The inspector Bernard Gui appears in another novel by this author of (*) *Baudolino* and *The Prague Cemetery*, in which the second book of Aristotle’s *Poetics* is found to have poisoned pages by William of Baskerville and Adso of Melk. For 10 points, name this Italian author of *The Name of the Rose*.

ANSWER: Umberto Eco <Yoo>

BONUS

This poem’s speaker describes hills that are “rock-ribbed and as ancient as the sun.” For 10 points each:

[10] Name this poem. The speaker encourages the reader to “pierce the Barcan wilderness” and to “go not like the quarry slave at night” in this poem, whose Greek title translates as a “meditation on death.”

ANSWER: “Thanatopsis”

[10] “Thanatopsis” is by this American poet. In “To a Waterfowl,” this poet asked the title creature “dost thou pursue thy solitary way?”

ANSWER: William Cullen Bryant

[10] “Thanatopsis” was criticized by one poet with this last name in *A Fable for Critics*. Another poet with this last name described “the Old South Boston Aquarium stand[ing] in a Sahara of snow” in “For the Union Dead.”

ANSWER: Lowell [accept James Russell Lowell or Robert Lowell] <Nair>

TOSSUP 8

Lester Young played this instrument in Count Basie’s orchestra. A player of this instrument composed a track in which chords move by thirds to circulate the ii-V-I (“two-five-one”) progression, known as that player’s namesake “changes.” “Blues for Alice” was composed by a player of this instrument, who developed (*) bebop with Dizzy Gillespie. *Ornithology* and *Giant Steps* are albums by players of this instrument. For 10 points, Charlie Parker and John Coltrane played what woodwind instrument, jazz versions of which are usually tenor and alto?

ANSWER: saxophone [accept tenor saxophone and alto saxophone] <Vasilyev>

BONUS

For 10 points each, answer the following about the *Dies Irae*, or the “Day of Wrath.”

[10] The *Dies Irae* has been used much less frequently since the liturgical changes made at this Council, which was convoked by Pope John XXIII (“the twenty-third”).

ANSWER: **Second Vatican** Council [or **Vatican II** (“Vatican two”)]

[10] During the Second Vatican Council, a line in the *Dies Irae* was changed from this name to “the sinner,” reflecting research showing that a woman of this name was not a prostitute. Another woman with this name was Jesus’s mother.

ANSWER: **Mary** [accept **Maria**]

[10] The penultimate verse of the *Dies Irae* is titled for a word which means this action. The shortest verse in the King James Bible refers to Jesus performing this action before raising Lazarus from the dead.

ANSWER: **weeping** [or **crying**; accept reasonable translations like **sobbing** or **shedding tears**; prompt on *lacrimosa*] <Ma>

TOSSUP 9

This ruler moved his capital to the planned city of Fatehpur Sikri but lost interest and later moved to Lahore. This ruler’s regent Bairam Khan was assassinated for helping him defeat Hemu. This ruler’s actions in support of religious plurality included abolishing the jizya tax, marrying a Rajput princess, and creating the (*) Din-i-Ilahi, his own faith. This ruler succeeded Humayun and won the Second Battle of Panipat in 1556, retaking North India. For 10 points name this third Mughal Emperor whose name means “great,” the grandson of Babur.

ANSWER: **Akbar** I [accept Abu'l-Fath **Jalal-ud-din Muhammad** Akbar] <Goodapaty>

BONUS

Moderator Note: Read second and third parts of the bonus slowly

Compass and straightedge ready! (Just kidding). Here are some questions about classical construction, for 10 points each:

[10] You can draw segments of these geometrical objects with a straightedge alone. These straight objects have no width or depth and stretch infinitely far in both directions.

ANSWER: **lines**

[10] To construct a parallel through a point, you draw a transversal and utilize the fact that certain pairs of angles formed by two parallel lines and a transversal are congruent. Name any of the three types of pairs.

ANSWER: **alternate interior** angles or **corresponding** angles or **alternate exterior** angles [do not accept or prompt on partial answers]

[10] To construct the circumcenter of a triangle, you construct three lines and find where they concur. Each of these lines is the locus of points equidistant to two vertices of the triangle. Give the name for these lines.

ANSWER: **perpendicular bisectors** [prompt on **bisector**; do not accept or prompt on any other type of bisector] <Ma>

TOSSUP 10

The frequency of events associated with this phenomenon can be explained by variable hyperpolarization levels. Those “spindles” associated with this phenomenon occur along with K complexes. Prior to the onset of this phenomenon, relaxation and reduced stimulus response characterizes the (*) hypnagogic state. The unexpected onset of the REM (“rehm”) form of this phenomenon is the primary symptom of narcolepsy. For 10 points, name this state of consciousness which is disordered in people with insomnia.

ANSWER: **sleep** <Condron>

BONUS

This city, home to the Antilia, the tallest private residence in the world, lies across Thane Creek from a “Navi” version of itself. For 10 points each:

[10] Name this city home to the Dharavi slum and Shivaji International airport, the largest city in the state of Maharashtra. The Bollywood film industry is located here.

ANSWER: **Mumbai** [accept **Bombay**]

[10] Mumbai is a city in this populous Asian country with its capital at New Delhi. Hindi and English are the official languages of this country, which boasts the largest diaspora in the world.

ANSWER: **India** [accept **Bharat** Ganarajya]

[10] India’s diverse languages are grouped mainly with the Indo-European Aryan language family of the north and this language family in the south. Languages in this family include Telugu, Tamil, Kannada, and Malayalam.

ANSWER: **Dravidian** <Shyam>

TOSSUP 11

In May 2020, an autistic man was shot at the Lion’s Gate Checkpoint on this country’s eastern border. A power-sharing agreement reached in May 2020 in this country resolved a year-long, three-election period of political crisis without a government. That agreement created an office called the (*) Alternate Prime Minister, currently held by Benny Gantz, and left the longtime leader of this country’s Likud party in office. For 10 points, name this country, led by Benjamin Netanyahu from Jerusalem.

ANSWER: **Israel** <Patison>

BONUS

This tribe was forced to relocate by General James Carleton, aided by the legendary Kit Carson. For 10 points each:

[10] Name this tribe that had to endure a several-hundred-mile journey on the Long Walk.

ANSWER: **Navajo** [accept **Dine**]

[10] The Navajo are closely related to the Apache, both of whose reservations are predominantly in this state. This state includes the modern cities of Phoenix and Tucson in historically Apache land.

ANSWER: **Arizona**

[10] This member of the Apache led a long guerilla war of resistance, surrendering to Nelson Miles in 1886. His name is shouted by parachutists and was controversially used as a code word for the killing of Osama bin Laden.

ANSWER: **Geronimo** <Ma>

TOSSUP 12

Reforms ended by this event were resumed when its country’s leader made a Southern Tour three years later to emphasize that “to get rich is glorious.” Foam and papier-mache were used to make a giant statue of the Goddess of Democracy at this event. This event sparked by the death of (*) Hu Yaobang was crushed by 300,000 soldiers sent by Deng Xiaoping (“shiao-PING”). In this event’s most famous photo, a road with vehicles is blocked by a “Tank Man.” For 10 points, name this heavily censored event that ended on June 4th, 1989 in the main square of Beijing.

ANSWER: **Tiananmen Square** Protests [accept the **June Fourth** Incident or **6-4** Incident before read; accept descriptive answers naming either the place or date of protest; prompt on descriptions including only **Beijing**] <Goodapaty>

BONUS

In a one-man play by this author premiered by actor Patrick Magee, an old man listens to a recording of his younger 39-year-old self on his 69th birthday. For 10 points each:

[10] Name this Irish author of *Krapp's Last Tape*. He also depicted the trash bin dwellers Nag and Nell in his play *Endgame*.

ANSWER: Samuel **Beckett**

[10] In this Beckett play, the slave Lucky utters the phrase “quaquaquaqua” after being told to “Think!” Vladimir and Estragon meet Lucky and his master Pozzo while anticipating a visit from the title character of this play.

ANSWER: ***Waiting for Godot*** [accept ***En attendant Godot***]

[10] This object is one of the only props used in *Waiting for Godot*. Vladimir and Estragon contemplate committing suicide by hanging themselves from this object with a belt.

ANSWER: a **tree** <Nair>

TOSSUP 13

This force names a polar brightening that occurs in rotating stars. This force disintegrates an object crossing the Roche limit. “Spaghettification” occurs due to a strong gradient of this force. The Nice (“nees”) model suggests the Late Heavy Bombardment was caused by bodies exerting this force’s namesake (*) “slingshot.” Overcoming the effects of this force is impossible inside the Schwarzschild radius, where escape velocity is greater than c . This inverse-square force moves planets in elliptical orbits. For 10 points, name this force that attracts masses to each other.

ANSWER: **gravity** [prompt on **tidal** force by asking “what force’s gradient creates a tidal force?”] <Ma>

BONUS

Number-average molecular weight and weight-average molecular weight are common ways to characterize the size of these molecules. For 10 points each:

[10] Name these macromolecules, which consist of chains of repeated subunits called monomers.

ANSWER: **polymers**

[10] A polymer sample’s number-average molecular weight can be determined using a technique that measures this quantity across a semipermeable membrane. This colligative property equals the van’t Hoff factor times concentration times RT .

ANSWER: **osmotic pressure** [prompt on **pressure**]

[10] The size-exclusion form of this procedure can also be used to analyze the molecular weight distribution of a polymer. In contrast, its affinity version is used to purify tagged proteins.

ANSWER: **chromatography** [accept size-exclusion **chromatography** or affinity **chromatography**] <Artlip>

TOSSUP 14

The preface to this novel states that it was inspired by the author’s acting in *The Frozen Deep*, a play by Wilkie Collins. This novel features two spies named Roger Cly and John Barsad as well as a physician who obsessively makes shoes after his release from prison. In this novel, a coin is tossed to Gaspard after the Marquis (*) St. Evrémonde runs over his child. Sydney Carton takes Charles Darnay’s spot at the guillotine in, for 10 points, what novel set in French Revolution era London and Paris by Charles Dickens that begins, “It was the best of times, it was the worst of times”?

ANSWER: ***A Tale of Two Cities*** (The physician is Dr. Alexandre Manette) <Yoo>

BONUS

The Kionga Triangle, Ruanda-Urundi, and most of this country made up German East Africa. For 10 points each:
[10] Name this colony that became a country of the same name before uniting with Zanzibar to its east. Its name means “sail in the wilderness” in Swahili, referencing a lake of the same name on its western border.

ANSWER: Tanganyika

[10] This country controlled Tanganyika before independence in 1961. “The sun never set” on its empire, resulting in its language becoming the most common second language in the world.

ANSWER: United Kingdom [accept United Kingdom of Great Britain and Northern Ireland]

[10] This international organization made Tanganyika a Class B mandate under the control of the UK after World War I. Its Mandate Commission ensured the protection of minority rights in the territories in question.

ANSWER: League of Nations <Ma>

TOSSUP 15

According to Sikh tradition, after spending three days in one of these locations in Sultanpur, Guru Nanak said, “There is no Hindu. There is no Muslim.” After Sagara fails to create one of these locations, Bhagiratha creates one of these locations that is analogized to the hair of Shiva. One of these locations is the destination of the (*) Kumbh Mela pilgrimage. Seven of these locations are revered by Hindus, including the Godavari and the Yamuna. Hindus make pilgrimages to bathe in, for 10 points, what type of locations exemplified by the Ganges?

ANSWER: rivers [or streams or rivulets; accept River Bein or Ganga River or Ganges River or Godavari River or Yamuna River; prompt on water; prompt on Bein, Ganges, or Ganga by asking, “What general type of location is the Bein/Ganges/Ganga?”] <Condron>

BONUS

This director remade his own film *The Man Who Knew Too Much*, commenting that “the first version [was] the work of a talented amateur and the second was made by a professional.” For 10 points each:

[10] Name this director. His films, which include *Rear Window*, *Vertigo*, and *Psycho*, have earned him the title of Master of Suspense.

ANSWER: Alfred Hitchcock

[10] This Hitchcock film stars Cary Grant as Roger Thornhill, a man caught in the wrong place at the wrong time. Two famous scenes in this film involve Grant fleeing a crop duster and climbing Mount Rushmore.

ANSWER: North by Northwest

[10] In *North by Northwest*, Thornhill is mistaken for a man carrying a sensitive microfilm, a typical Hitchcockian plot device of this name. This device puts the plot in motion but serves little purpose otherwise.

ANSWER: MacGuffin <Patison>

TOSSUP 16

This technique can join molecules together by overlap-extension. Troubleshooting this technique can involve adding DMSO or changing the magnesium concentration. A standard curve and a dye like SYBR are used for this technique’s “quantitative” variant. This technique moves through (*) denaturation, annealing, and elongation steps, controlled by a thermal cycler. *Thermus aquaticus* is the source for the heat-stable Taq polymerase used in this technique. For 10 points, name this technique that uses primers to amplify a segment of DNA.

ANSWER: PCR [or polymerase chain reaction; accept real-time PCR or real-time polymerase chain reaction or RT-PCR or quantitative PCR or quantitative polymerase chain reaction or quantitative real time PCR or quantitative real time polymerase chain reaction or qRT-PCR] <Mukherjee>

BONUS

This *bildungsroman* was published in 1847 under the pen name Currer Bell. For 10 points each:

[10] Name this novel in which the title character suffers a cruel childhood under the Reeds at Gateshead Hall and befriends Helen Burns, who dies of consumption, at Lowood School.

ANSWER: Jane Eyre

[10] This author of *Jane Eyre* reworked much of her first novel, *The Professor*, into a novel about Lucy Snowe titled *Villette*. She made up a trio of literary siblings with her sisters Anne and Emily.

ANSWER: Charlotte Brontë [prompt on Brontë]

[10] Dominican-born author Jean Rhys wrote this novel in response to *Jane Eyre*. It describes Rochester's marriage from the point of view of Antoinette Cosway, a Creole heiress.

ANSWER: Wide Sargasso Sea <Yoo>

TOSSUP 17

In a story by this author, an actor learns Southern mannerisms from Major Talbot and secretly pays him 300 dollars for his help under the guise of "Uncle Mose." In another story by this author of "The Duplicity of Hargraves," Old Hank and Snake-eye are threatened with scalping and burning at the stake by a 10-year-old boy. (*) Ebenezer Dorset's son is returned at the end of that story by this author, "The Ransom of Red Chief." Jim and Della give unfortunate Christmas gifts to each other in, for 10 points, what author's "The Gift of the Magi"?

ANSWER: O. Henry [accept William Sydney Porter] <Yoo>

BONUS

According to one writer, these people contributed 100 men to the Senate and took up the calendar of a conquering people, who, in turn, adopted the long shields of these people. For 10 points each:

[10] Name these people whose women were exempted from "all drudgery and labor but spinning" after being abducted by Romulus and his companions.

ANSWER: Sabines

[10] The Sabine women were abducted in the early days of this city, whose mythical founders are Romulus and Remus. This Italian city would eventually be the center of a large Mediterranean empire.

ANSWER: Rome

[10] This author described the abduction of the Sabine women in his telling of the life of Romulus. This author paired Romulus with Theseus in his *Parallel Lives*.

ANSWER: Plutarch [or Lucius Mestrius Plutarchus] <Condron>

TOSSUP 18

Martin Bucer invited this man and other religious exiles to Strasbourg in 1538. This man had Michael Servetus burned at the stake for his views on the Trinity. While exiled from Scotland, John Knox studied with this man and founded Presbyterianism from his ideas. This man reconciled his ideas with those of (*) Ulrich Zwingli in Zurich and founded a theocratic republic in Geneva. For 10 points, name this Protestant theologian who wrote *The Institutes of the Christian Religion*, whose namesake denomination follows the doctrine of predestination.

ANSWER: John Calvin <Goodapaty>

BONUS

In late 2019, findings from the crash site of Lion Air Flight 610 confirmed beliefs that this model of aircraft's faulty angle-of-attack sensors pushed the plane into an uncontrollable dive. For 10 points each:

[10] Name this line of airplanes that was fully grounded in July 2020 following two fatal crashes.

ANSWER: **737 MAX** [accept but do not otherwise reveal Boeing **737 MAX**; prompt on partial answer]

[10] This American aerospace corporation and defense contractor halted production of the 737 MAX in January 2020. They also announced in July 2020 that they would stop production of their flagship 747 Jumbo Jet by 2023.

ANSWER: **Boeing**

[10] Though headquartered in Chicago, Boeing was founded in this city. In other recent news, the first reported case of COVID-19 in the US was in Everett, a suburb of this city, and the Capitol Hill Autonomous Zone was established here during the 2020 Black Lives Matter protests.

ANSWER: **Seattle**, Washington <Shyam>

TOSSUP 19

Some glitches in this game franchise's first installments centered on a coffee-craving Old Man who blocks the player's way. In some games in this franchise, retrieving a stolen Machine Part gives access to the Magnet Train between Goldenrod and Saffron Cities. This franchise's games set in the (*) Kalos ("call-ohs") region introduced the Fairy type, which is super effective on Dragon types. In 2019, the games *Sword* and *Shield* were released for, for 10 points, what game franchise that features catchable creatures like Charizard and Pikachu?

ANSWER: **Pokémon** [accept **Pocket Monsters**; accept **Pokettomonsutā**] <Yoo>

BONUS

PIN proteins transport the anionic form of these hormones across cell membranes. For 10 points each:

[10] Name these plant hormones that mediate phototropism and gravitropism by causing cell growth and elongation. One example of these hormones is indole acetic acid.

ANSWER: **auxins**

[10] These N6-adenine derivative plant hormones are primarily produced in root tips, with the most abundant kind being zeatin. Their main purpose is to regulate cell division.

ANSWER: **cytokinins**

[10] Another class of plant hormones, gibberellins, encourage these structures to leave dormancy and germinate, allowing new plants to grow from them. These structures, consisting of an embryo, cotyledons, and their namesake coat, are found in fruits.

ANSWER: **seed**s <Shyam>

TOSSUP 20

This artist painted a nude goddess leaning on a hunter's arm in *Venus and Adonis*. In *The Honeysuckle Bower*, this artist depicted himself and his wife Isabella Brant. Three men on horseback spear the title animals in this artist's *The Hippopotamus and Crocodile Hunt*. *The Coronation in (*) Saint-Denis* is part of a 24-painting series by this artist, who also painted muscular men carrying the title object in *Descent from the Cross*. For 10 points, name this Flemish artist of the Marie de' Medici cycle, known for his depictions of fleshy female nudes.

ANSWER: Peter Paul **Rubens** <Pamurthy>

BONUS

This composer's *Variations on a Theme by Haydn* is based on a "Chorale St. Antoni." For 10 points each:

[10] Name this German composer of *Hungarian Dances* and a notable "Wiegenlied," or lullaby. Similarities between his first symphony and Beethoven's last led to its nickname of "Beethoven's Tenth."

ANSWER: Johannes **Brahms**

[10] The finale of this work by Brahms is based on the festive song "Gaudeamus igitur." Brahms wrote this piece to thank the University of Breslau for an honorary doctorate.

ANSWER: **Academic Festival Overture**

[10] Brahms wrote to this pianist friend of his, "I wish that I could write to you as tenderly as I love you." One of the first to play without sheet music, she mostly played works by her husband Robert.

ANSWER: **Clara Schumann** [accept Clara **Wieck**, prompt on **Schumann**] <Pamurthy>