

**2022-2023 IQBT Regular Season Set #1**  
**Round 5 – Tossups**

1. When one of these polygons is inscribed in a conic section, the intersection of its sides is described by Pascal's theorem. Squares, triangles, and this regular polygon are the only ones that can tile the plane. Each vertex of this polygon has (\*) three diagonals, and it is the fewest-sided polygon to have more diagonals than sides. Drawing this shape's long diagonals divides it into equilateral triangles, and the sum of the internal angles of this polygon equals 720 degrees. For 10 points, name this regular polygon with six sides.

ANSWER: regular hexagon

2. In 2022, after a 335-mile march to this state's capital, its governor signed a bill easing the process for farm workers to unionize. The mayor of a city in this state was rejected in a nomination to become Ambassador to India in 2022. Another city in this state recalled its district attorney, (\*) Chesa Boudin (CHAY-suh boo-DEEN). The governor of this state was criticized for attending a party at The French Laundry during COVID restrictions and survived a recall election against Larry Elder and Caitlyn Jenner. For 10 points, name this state governed by Gavin Newsom.

ANSWER: California

3. The only named chapter in this novel describes Nikolai's tuberculosis and is titled "Death." Two characters in this novel get engaged after playing a game based on giving the first letters of words. The aristocratic Stiva cheats on his wife (\*) Dolly near the start of this novel, leading to the title character's arrival. This novel begins with a remark about how "all happy families are alike" and ends when the title character jumps in front of a train after an affair with Count Vronsky. For 10 points, name this novel by Leo Tolstoy.

ANSWER: Anna Karenina (kah-REN-in-uh)

4. A book titled for this group discusses a man who led the "only successful slave rebellion in history" and was written by C.L.R. James. The Feuillants (foo-yahn) Club, which included the Marquis de Lafayette, split from this group. Extreme members of this group sat in higher seats in the assembly and were called "The (\*) Mountain." Charlotte Corday assassinated a supporter of this group, whose Reign of Terror ended after the Thermidorian (THERM-id-OR-ee-un) Reaction. For 10 points, name this group led by Maximilien Robespierre (ROH-bess-PYAIR) during the French Revolution.

ANSWER: Jacobins [or the Jacobin Club; or *The Black Jacobins*]

5. Amy Beach stated that this piece inspired the *Gaelic Symphony*. A *Largo* theme in this symphony beginning with slurred notes "dotted eighth-sixteenth F, A-flat, long A-flat" evokes Harry Burleigh's singing. William Arms Fisher's (\*) "Goin' Home" is based on an English horn solo from this symphony, whose first movement has a flute solo resembling "Swing Low, Sweet Chariot." After finishing this symphony, its composer left Spillville to lead "Bohemian Days" at the World's Fair. For 10 points, a visit to the U.S. inspired what Antonín Dvořák (AAN-toh-noon div-or-JACK) symphony?

ANSWER: *Symphony From the New World* [or *New World Symphony*; or *Z nového světa*; or Antonín Dvořák's *Symphony No. 9* in E minor; or 9th after "Dvorak" is read; prompt on 9th *Symphony* before "Dvorak" is read]

6. This author described a location where “peace comes dropping slow” in a poem that mentions “nine bean rows” in a place where “midnight's all a glimmer” and the speaker “will arise and go now.” This author invoked a childhood memory of a vacation spot in County Sligo in “The (\*) Lake Isle of Innisfree.” A poem by this author says “The falcon cannot hear the falconer” and ends by warning of a “rough beast” that “Slouches towards Bethlehem to be born.” For 10 points, name this Irish poet who wrote “The Second Coming.”

ANSWER: William Butler Yeats (yates)

7. This adjective appears in the title of a book claiming that there is no real distinction between nature and culture, by Bruno Latour. Zygmunt Bauman (zig-MOONT BAO-mon) theorized that society is in a “liquid” form of this state. A new phase that comes after this state was discussed in the major book of (\*) Fredric Jameson. This adjective describes philosophy starting in the mid-17th century and physics from about 1905 onward. For 10 points, give this term for a period that is succeeded by a “post-” form in which truth and values are relative.

ANSWER: modern [or modernity]

8. Thalassemia (THAA-luh-SEE-mee-uh) is a disease characterized by decreased production of this molecule. The carbon dioxide affinity of this molecule in acidic conditions can be described by the Bohr effect. When this molecule is found in the lungs or kidneys, it acts as an antioxidant and helps to regulate (\*) iron. This molecule has four subunits, all containing a porphyrin (POR-fuh-rin) ring. Carbon monoxide's affinity for this molecule is two-hundred and fifty times more than oxygen's. For 10 points, name this iron-containing transport protein found in red blood cells.

ANSWER: hemoglobin

9. This country is on the south of a border that was ill-defined by the Cañas-Jerez (KAHN-yahs-HAY-rez) Treaty. Virgin of the Angels Day is a national holiday in this country, where the Monteverde (mohn-tey-VAIR-day) Cloud Forest is home to over 2,500 plant species. The easygoing catchphrase (\*) “Pura Vida” (POOR-ah VEE-dah) is common in this country, which is regularly ranked first in the “Happy Planet Index.” This country, which abolished its military in 1949, is engaged in a more than 150-year-long border dispute over the San Juan River. For 10 points, name this smaller southern neighbor of Nicaragua.

ANSWER: Republic of Costa Rica

10. One of the earliest pieces of evidence for this technology was found in South Africa's Wonderwerk (VON-dair-vurk) Cave. Hypotheses state that this technology directly contributed to the gradual shrinkage of molar teeth of *H. erectus*. Tools such as Schöningen (SHOO-ning-en) spears were (\*) hardened using this technology, which also enabled the lengthening of the waking day. This technology was harnessed nearly two million years ago according to traces of wood ash. For 10 points, name this technology that led to rapid developments in wintertime heating and cooking food.

ANSWER: fire [or flames; prompt on cooking; prompt on heating food]

11. A radioactive isotope of this element emits gamma radiation when it decays to tellurium-123, which makes it useful in nuclear medicine imaging. This element and potassium are found in a solution used to test for the presence of starches. A compound of silver and this element is usually used to try to increase precipitation in (\*) cloud seeding. This element is often added to table salt to prevent a nutritional deficiency that causes thyroid problems. For 10 points, name this heaviest diatomic element, a halogen with atomic symbol I.

ANSWER: iodine

12. A region named for this language contains the modern descendant of the biblical city Ophir (oh-FEER), called Sofala (soh-FAH-lah), which was once part of the Kilwa (KEEL-wah) Sultanate. Arab traders captured Zanj (zunj) slaves from a region named for this language. A word in this language named a set of villages established by the Arusha (ah-ROO-shah) Declaration called *ujamaa* (oo-jah-MAH), as proposed by Julius (\*) Nyerere (nuhr-AIR-ay). A “Coast” named for this language was a hub of the slave trade around the cities of Dar es Salaam (DAR-es-sah-LAHM) and Mombasa (mahm-BAH-suh). For 10 points, name this language that traders often spoke in Tanzania (tan-zuh-NEE-uh) and Kenya.

ANSWER: Swahili [or Kiswahili]

13. The classic mode of a game in this series includes bonus stages instructing to “Snag The Trophies” and “Race to the Finish.” Tabuu leads an extradimensional army in the Subspace Emissary campaign of a game in this series. (\*) Galeem is the antagonist of the World of Light adventure mode for the most recent game in this series. Final Destination is a stage in this series that features the recurring villain Master Hand. For 10 points, name this Nintendo fighting game series whose objective is to knock players off the stage.

ANSWER: *Super Smash Bros* [prompt on Melee; prompt on Brawl; prompt on Ultimate]

14. This person is the subject of the song “Ani Ma'amin” (AH-nee mah-AH-meen), which is based on the twelfth of a set of thirteen principles of faith. The anthem of the Tzivos Hashem (TSEE-vohs hah-SHEM) youth movement within Chabad (hah-BAHD) expresses a desire to welcome this person “now.” Sabbatai Zevi (SAH-bah-tai ZVEE) and Simon bar Kokhba (\*) claimed to be this person, whose prophesied deeds are re-establishing the Sanhedrin (san-HED-rin), building the Third Temple, and returning the diaspora to Israel. For 10 points, name this yet-to-come liberator who will fulfill a role in Judaism analogous to Jesus in Christianity.

ANSWER: the Jewish Messiah [or mesiyah; or mashiach; do not accept or prompt on “Jesus”]

15. The protagonist of this novel responds to hard times by taking up with the thief Jack Duane. That character in this novel is arrested for assaulting Phil Connor. Ostrinski and Nicholas Schliemann (SHLEE-man) help convert the (\*) Lithuanian protagonist of this novel to socialism. The author of this novel claimed that he “aimed at the public's heart, and by accident I hit it in the stomach” in response to the Pure Food and Drug Act. For 10 points, name this novel which follows Jurgis Rudkus (YURG-is RUD-kis) through the Chicago meat packing industry, written by Upton Sinclair.

ANSWER: *The Jungle*

16. A painting in this format which illustrates a poem providing advice to women is titled *Admonitions*. Japanese examples of this format, called *emakimono* (aim-AH-kee-MOH-noh), include a 12th-century item with scenes from *The Tale of Genji*. The Rainbow Bridge is at the center of a painting in this format depicting Kaifeng (KAI-fung) in spring by Zhang Zeduan (jong zay-DWAN), titled (\*) *Along the River During the Qingming (ching-ming) Festival*. Song Dynasty artists used silk or paper in this format, which was later replaced by codices (KAH-dis-eez). For 10 points, name this kind of painting that is unrolled for viewing.

ANSWER: scrolls [or handscrolls; or shōjuàn]

17. This quantity is related to polarizability in the Lorentz-Lorenz equation. This quantity must be lower in the cladding of a fiber optic cable than the core for total internal reflection to occur. The arctangent of the ratio of two values of this quantity gives (\*) Brewster's angle, and this quantity is multiplied by sine theta in Snell's law. This property, which equals the ratio of the speed of light in a vacuum to that in a medium, is denoted lowercase n. For 10 points, name this material property that indicates a medium's light bending ability.

ANSWER: index of refraction [or refractive index; or refraction index]

18. A government in what became this state entered secret relations with the U.K. in the Haldimand Affair and was led by Moses Robinson and Thomas Chittenden. A holiday in this state commemorates the 1777 defeat of John Burgoyne at the Battle of Bennington. Seth Warner was a Revolutionary War officer from this state, whose (\*) Catamount Tavern hosted a meeting that planned to capture Fort Ticonderoga. For 10 points, name this fourteenth state of the Union, where a militia called the Green Mountain Boys was founded by Ethan Allen.

ANSWER: Vermont

19. This ingredient is the foundation for kabsa (KAB-suh), a Saudi Arabian dish also called makbūs (mok-BOOS). The states of Goiás (goy-AIZ) and Minas Gerais (MEEN-ai jer-AIZ) prepare a chicken dish always accompanied by this ingredient called galinhada (gah-leen-YAH-duh). The Mughal Empire originated a dish whose base is this ingredient alongside (\*) meat and spices, called biryani (beer-YAH-nee). Pulao (poo-LAO), polo, and plov are all variations of a dish centered on this ingredient. For 10 points, name this essential ingredient in pilaf (PEEL-ahf) dishes, which commonly use its long-grain or basmati (bahz-MAH-tee) forms.

ANSWER: rice [or basmati rice; or long-grain rice]

20. An animal of this type was believed to be the “great goddess” of Teotihuacan (TAY-oh-tee-WAH-kun). Two Navajo deities taking this form constantly debated over the names of their invention. The Hopi believed in a “Grandmother” form of this animal who made humanity. All of the stories in the world were bought from Nyame (nee-AH-may) by (\*) Anansi (ah-NAN-see), who took the form of this sort of animal. After losing a contest to Athena, Arachne (uh-RAK-nee) was turned into an animal of this type. For 10 points, name this sort of animal, which many cultures venerate as a god of weaving.

ANSWER: spiders [or Teotihuacan Spider Woman; or Spider man; or Spider woman; or Grandmother Spider; prompt on arachnids]

21. This city's skyscrapers include the misleadingly named Greenland Centre and the Crown in Barangaroo. The City to Surf Fun Run goes from this city's business district to Bondi Beach. “The Coathanger” is a nickname for a bridge that connects the (\*) North Shore to this city, the Harbour Bridge, which crosses Port Jackson. This city on Botany Bay hosted the 2000 Summer Olympics and features a Jørn Utzon (YORN OOT-zahn)-designed structure whose roof resembles sails. For 10 points, name this Australian city that contains a landmark opera house.

ANSWER: Sydney

**2022-2023 IQBT Regular Season Set #1**  
**Round 5 – Bonuses**

1. An Art Deco statue of this person was designed by architect Paul Landowski (**laan-DOHV-skee**) and engineer Heitor da Silva Costa (**AY-tor dah SIL-vah KOH-stah**) and was originally supposed to hold a globe. For 10 points each:

[10] Name this subject of a 125-foot concrete and soapstone sculpture in Tijuca (**chi-JOO-kah**) National Park on Mount Corcovado (**KOR-koh-VAH-doh**).

ANSWER: **Jesus** Christ [or **Christ**; or **Christ the Redeemer**]

[10] The *Christ the Redeemer* statue overlooks this Brazilian city from about three miles northwest of Copacabana beach.

ANSWER: **Rio** de Janeiro

[10] The world's tallest statue of Jesus is in this country's city of Świebodzin (**SHVEH-boh-jin**). A radio tower in this country was once the world's tallest manmade structure until it fell down in 1991.

ANSWER: **Poland** [Republic of **Poland**; or Rzeczpospolita **Polska**]

2. This ethnic group speaks a language including loanwords from Fulani (**foo-LAH-nee**) and Mende (**MEN-day**). For 10 points each:

[10] Name this ethnic group that lives in the Sea Islands and speaks a creole developed on Lowcountry rice plantations.

ANSWER: **Gullah** people [or **Geechee** people]

[10] The Gullah live in this state along the Santee River, as well as on Hilton Head Island and in Charleston.

ANSWER: **South Carolina**

[10] The television program *Gullah Gullah Island* may have been inspired by this island, which shares its name with a South Atlantic Ocean island where Napoleon was imprisoned and died.

ANSWER: **Saint Helena** Island

3. A character is told “It's just till June” in a climactic scene of this play. For 10 points:

[10] Name this play by John Patrick Shanley in which Sister Aloysius suspects a priest of sexual misconduct.

ANSWER: **Doubt: A Parable**

[10] In *Doubt*, characters debate whether to sing secular or religious songs in a pageant for this holiday. During the leadup to this holiday, the dinner depicted in James Joyce's “The Dead” takes place.

ANSWER: **Christmas**

[10] *Doubt* is set in this borough of New York City. Don DeLillo's *Underworld*, E.L. Doctorow's *Billy Bathgate*, and Sonia Manzano's *Becoming Maria* all follow protagonists who grow up in this borough.

ANSWER: The **Bronx**

4. This medication was originally created by Bayer in 1897. For 10 points each:

[10] Name this medication that is used to treat pain and help prevent heart attacks.

ANSWER: **aspirin** [or **acetylsalicylic acid**]

[10] Aspirin belongs to this class of drugs that inhibit cyclooxygenase (**SAI-klo-OK-sij-en-ayz**) to curb inflammation.

ANSWER: **NSAIDs** [or **nonsteroidal anti-inflammatory drugs**]

[10] Overuse of NSAIDs can lead to this condition, a break in the mucous membrane of the stomach, as the drugs cause a decrease in mucus production.

ANSWER: peptic **ulcer** [or gastric **ulcer**]

5. This author wrote a pamphlet analyzing what Frederick Douglass described as the three eras of “Southern barbarism.” For 10 points each:

[10] Name this journalist of *The Red Record* and *Southern Horrors* who documented the history of lynching.

ANSWER: Ida B. **Wells** [or Ida Bell **Wells-Barnett**]

[10] Wells was one of the founders of this major civil rights organization, along with Mary Church Terrell and W.E.B. Du Bois (**doo BOYZ**).

ANSWER: **NAACP** [or **National Association for the Advancement of Colored People**]

[10] Wells owned the *Free Speech and Headlight* newspaper in this city, where the “I’ve Been to the Mountaintop” speech was given during a 1968 sanitation strike.

ANSWER: **Memphis**

6. The Ehrenfest (**EE-ren-fest**) classification system for these events organizes them based on the degree of their order parameters. For 10 points each:

[10] Name these transitions between states of matter such as melting or freezing.

ANSWER: **phase changes** [or **phase transitions**]

[10] Phase changes can be plotted on a phase diagram. At this point on the diagram a substance exists as a solid, liquid, and gas.

ANSWER: **triple** point

[10] A cold finger is used in a process that extracts impurities during this phase transition that carbon dioxide demonstrates below the triple point.

ANSWER: **sublimation**

7. This kingdom's legal code was compiled into the *Doom Book*. For 10 points each:

[10] The unified English state developed out of what kingdom, whose monarch Alfred the Great signed a peace treaty with Guthrum?

ANSWER: Kingdom of **Wessex** [or Kingdom of **West Saxons**]

[10] Wessex fought many battles with this neighboring kingdom ruled by Penda. A dyke near the Welsh-English border was built under this kingdom's monarch Offa.

ANSWER: Kingdom of **Mercia**

[10] Under Alfred the Great, Wessex used ditches and earthen walls to defend against these Scandinavian invaders, who used longboats in their move to places such as Iceland.

ANSWER: **Vikings** [prompt on **Norsemen**; prompt on **Danes**]

8. A conversation between these two men contains the often quoted line, “She is tolerable, but not handsome enough to tempt me.” For 10 points each:

[10] Name these two men. This pair ultimately marries two sisters, after Lady Catherine is indignantly rebuffed, in an 1813 novel.

ANSWER: Mr. **Darcy** and Mr. **Bingley** [all acceptable answers may be given in either order, but do not accept or prompt if only one answer is given; or **Fitzwilliam** Darcy in place of “Mr. Darcy”; or **Charles** Bingley in place of “Mr. Bingley”; do not accept two answers that refer to the same person]

[10] In *Pride and Prejudice*, Darcy and Bingley marry Lizzie and Jane, respectively, who are sisters from this family that lives at Longbourn.

ANSWER: **Bennet** [or Lizzie and Jane **Bennet**; or the **Bennets**; or the **Bennet** family]

[10] *Pride and Prejudice* is a novel by this author, who also wrote *Sense and Sensibility*.

ANSWER: Jane **Austen**

9. A man jumps into a puddle over a ladder in an example of this artistic discipline called *Behind Gare Saint-Lazare* (**GAR saan laa-ZAR**). For 10 points each:

[10] The creator of *Behind Gare St. Lazare*, Henri Cartier-Bresson (**ahn-REE KAR-tee-BRAY-sahn**) advanced the theory of “the decisive moment” governing what field of art?

ANSWER: **photography** [or taking **photographs**; prompt on taking **pictures**; prompt on using **film**]

[10] The cover for Cartier-Bresson's book *Images on the Sly* was created by this Fauvist (**FOE-vist**) artist whose paintings include *The Joy of Life*.

ANSWER: Henri **Matisse** [Henri Émile Benoît **Matisse**]

[10] Cartier-Bresson photographed this man an hour before his assassination. Margaret Bourke-White photographed this political activist near a spinning wheel symbolizing the *swadeshi* (**swah-DEE-shee**) initiative.

ANSWER: Mohandas **Gandhi** [Mohandas Karamchand **Gandhi**; or Mahatma **Gandhi**]

10. *The Office* was the inspiration for the song “Netflix Trip” off of this band's 2017 album *The Click*. For 10 points each:

[10] Name this band composed of three brothers that also recorded “Weak,” “Bang,” and “Sober Up.”

ANSWER: **AJR**

[10] This song, by another artist, sampled lines from *The Office* episode “Threat Level Midnight.” This song has the lyrics “my doctor's can't explain my symptoms or my pain.”

ANSWER: “**my strange addiction**”

[10] “my strange addiction” is a song by this musician, who was 17 years old when her song “Bad Guy” became a #1 hit.

ANSWER: Billie **Eilish** [or Billie Eilish Pirate Baird **O'Connell**]

11. Fridtjof Nansen (**FRIT-juf NAAN-sin**) won the 1922 Nobel Peace Prize for mitigating one of these events in the Povolzhye (**PAH-volz-h-yeh**) region. For 10 points each:

[10] Name this type of event that occurred between 1921 and 1922 in Russia. A later one of these events was the main cause of death during the Holodomor (**HAH-luh-doh-MOR**) in Ukraine.

ANSWER: **famines** [prompt on descriptions such as **lack of food** or mass **starvations**; prompt on **droughts**; prompt on **failed harvests**]

[10] The famine of 1921 followed this conflict, which was fought between the White Army and the Bolshevik Red Army.

ANSWER: **Russian Civil War** [or **Grazhdanskaya vojna v Rossii**]

[10] Vladimir Lenin's New Economic Policy was decreed amid the famine and after this mutiny against the Bolshevik government. Stepan Petrichenko (**STEP-in pet-rish-ENK-oh**) led this rebellion at a port city on Kotlin Island.

ANSWER: **Kronstadt** (**KRAHN-shtat**) Rebellion

12. These particles are indicated as wavy lines on Feynman diagrams. For 10 points each:

[10] Name these massless, chargeless bosons (**BOH-zahns**) that are quanta of light.

ANSWER: **photon**

[10] The energy of a photon can be calculated by multiplying frequency with this constant denoted  $h$ .

ANSWER: **Planck's** constant

[10] Planck's constant divided by momentum gives this wavelength, named for a French physicist, who hypothesized that all particles should exhibit wave-particle duality.

ANSWER: **de Broglie** (**dee BROY**) wavelength

13. Robert Agnew generalized a theory named for this disconnect between society's mandated goals and an individual's status. For 10 points each:

[10] Name this phenomenon that, according to a Robert King Merton theory, produces crime.

ANSWER: **strain**

[10] Merton's strain theory was influenced by this sociologist's work on deviance. This advocate of "social facts" wrote *The Division of Labor in Society*.

ANSWER: Emile **Durkheim** (**em-eel dur-KEM**) [David Émile **Durkheim**]

[10] Merton discussed strain caused by failing to achieve this ideal. James Truslow Adams coined this term for a concept of social mobility, often involving aspirations of home ownership, in the country where Merton worked.

ANSWER: the **American dream**

14. A novel set in this country focuses on the struggles of two fraternal twins and responses to its national "Love Laws." For 10 points each:

[10] Name this country, the setting of *The God of Small Things*. This country is also the setting of the title story in *The Interpreter of Maladies*.

ANSWER: **India** [Republic of **India**; or **Bhārat Ganarājya**]

[10] Arundhati Roy (**aa-ROON-dah-TEE roy**) won the Booker Prize, which honors literature written in this language. This language is the primary language spoken by the American characters in *Interpreter of Maladies*.

ANSWER: **English**

[10] This author of *Interpreter of Maladies* and *Unaccustomed Earth* began writing in Italian in the 2010s.

ANSWER: Jhumpa **Lahiri** [or Nilanjana Sudeshna **Lahiri**]

15. A musical notation in which numerals and symbols appear above or below notes to indicate intervals or chords is called the "figured" kind of this word. For 10 points each:

[10] Give this word, which also refers to the clef in which cello and trombone music is commonly written.

ANSWER: **bass** [or figured **bass**; or **bass** clef]

[10] Figured bass was commonly used during this musical era of the 17th and early 18th centuries, which preceded the Classical era.

ANSWER: **Baroque** era [or **Baroque** period]

[10] The symbol "6" in figured bass commonly denotes the first type of a chord known by this word, in which the third is the bass note and the root is a sixth above it.

ANSWER: first **inversion** chord

16. British colonists under George Arthur and indigenous inhabitants of this island fought in the 1820s Black War. For 10 points each:

[10] Name this island, which was first settled by people crossing the Bass Strait. Europeans originally called it Van Diemen's Land.

ANSWER: **Tasmania**

[10] Martin Bryant killed 35 people in a Tasmanian city with this name. The Russo-Japanese War began with a surprise attack at a Manchurian district with this name.

ANSWER: **Port Arthur**

[10] About four out of every ten of these people who were sent to Australia came to Tasmania. "Colonies" of these people were opened in Port Arthur as a means of correcting behavior.

ANSWER: **convicts** [or **prisoners**; or **criminals**; or **transported** people]



17. Prior to 1946, this object depicted a Phrygian (**FRIJ-ee-un**)-capped goddess of liberty, who was frequently misidentified as Mercury. For 10 points each:

[10] Name this object that, since 1946, has shown John R. Sinnock's design of olive and oak branches flanking a torch on its reverse and Franklin D. Roosevelt's head on its obverse.

ANSWER: American **dime** [or **ten-cent piece** or **ten-cent coin**; prompt on **coin**]

[10] FDR was thus honored due to founding the March of Dimes, which funded Jonas Salk's invention of this medical breakthrough in 1955.

ANSWER: **polio vaccine** [prompt on **vaccine**]

[10] This former biology researcher turned political activist, who died in 2022, wrote the 2001 book *Nickel and Dime* about living as a minimum wage worker.

ANSWER: Barbara **Ehrenreich** [or Barbara **Alexander**]

18. As of 2022, seven states used this specific phrase in legislation banning it from public K-12 schools. For 10 points each:

[10] Conservative activist Christopher Rufo often campaigns against what three-word phrase, which originally referred to an idea put forth in law schools by Kimberlé Crenshaw and Derrick Bell?

ANSWER: **critical race theory**

[10] In 2017, Rufo sued this city for instituting a new income tax. Amazon is headquartered in this city in Washington.

ANSWER: **Seattle**

[10] Business groups, the ACLU, and FIRE all joined a 2022 lawsuit against a law signed by this governor, alleging that the wide-ranging “Stop WOKE Act” he signed infringes free speech.

ANSWER: Ron **DeSantis** [Ronald Dion **DeSantis**]

19. You are a student studying machine learning for the first time. For 10 points each:

[10] You first learn about this statistical modeling technique that involves estimating the effect between variables. The “linear” type of this technique involves drawing a line through points.

ANSWER: **regression** [or linear **regression**]

[10] Next, you learn about random forest, which involves “decision” types of this algorithm that shares its name with a data structure consisting of nodes and leaves.

ANSWER: **tree** [or decision **tree**]

[10] Finally, you learn about TensorFlow, a Python library used to implement “deep” examples of these models designed to mimic the connections in a human brain.

ANSWER: artificial **neural networks** [or **neural nets**; or **ANN**; or **NN**]

20. The Biblioteca Ambrosiana library in Milan holds a manuscript showing these two creatures below the Ziz, all above an illustration of the Feast of the Righteous. For 10 points each:

[10] Name these two great beasts of the land and the sea, respectively described in chapters 40 and 41 of the Book of Job (**joab**).

ANSWER: **Behemoth** [or **Behemot**] and **Leviathan** [or **Livyatan**; or **Lotan**; or **Rahab**] [all acceptable answers may be given in either order, but do not accept or prompt if only one answer is given]

[10] The role of the Leviathan and Behemoth in the Day of Judgment is described in the apocryphal book named for this father of Methusaleh, who directly “walked with God” into heaven without dying.

ANSWER: **Enoch** [or Book of **Enoch**]

[10] The word “ziz” appears in the Hebrew text of two of the 150 songs collected in this poetic book of the Bible.

ANSWER: **Psalms** [or **Tehilim**]

21. A character in this play says to his wife Rose, “I give you my sweat and my blood. I ain't got no tears.” For 10 points each:

[10] Name this play featuring the garbage truck driver Troy Maxson and his brother Gabriel, a veteran who suffered a head injury in the war.

ANSWER: ***Fences***

[10] Gabriel fervently believes that he is this sort of being. Tony Kushner wrote a two-part play titled for these beings *in America*.

ANSWER: **angels** [or ***Angels in America***]

[10] Gabriel ends the play by performing this action with a prop he holds, inspired by the actions of such biblical characters as Gideon, in an attempt to get St. Peter to “open the gates.”

ANSWER: **blowing** a **trumpet** [or **playing** or **sounding** a **trumpet**]