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Toss Ups:

1. Expression of PD-1 and CTLA-4 in these cells is linked to their exhaustion, and these cells go through double-negative, double-positive, and single-positive development stages. One type of these lymphocytes have a receptor with a gamma chain and a delta chain instead of the usual alpha and beta chains. These cells respond to antigens presented by (\*) MHCs, and one type of these cells releases perforin and granzymes to induce cell death. Cytokines like TNF-beta or interleukin-4 are released to increase the activity of other lymphatic cells by one type of these lymphocytes. CD4 is expressed by the “helper” type of—for 10 points—what white blood cells that respond to pathogens without generating antibodies, unlike B cells?

ANSWER: T cells [or T lymphocytes; prompt on lymphocytes or white blood cells before mentioned; accept thymocytes; accept helper T cells; accept CD4+ T cells] <Jonathen/Ed. JS>

2. A jazzy song in this game features the lyrics “Spin the wheel, take a chance / Every journey starts a new romance” and is sung by the mayor of a large city. Creature in this game called Moe-Eye are inspired by Easter Island sculptures and inhabit a level that also features an inverted floating pyramid. A huge bird called the Cookatiel inhabits this game’s food-themed (\*) Luncheon Kingdom, in which players can take control of fireballs. The rabbit-like Broodals assist the primary antagonist of this game, who is planning a wedding. Power Moons are used to improve this game’s namesake craft, while Cappy allows players to control enemies like Hammer Bros. and Goombas. For 10 points, name this game for the Nintendo Switch, the most recent 3-D platformer to feature Mario.

ANSWER: Super Mario Odyssey [prompt on Odyssey] <Taylor/ Ed. TH>

3. This nation’s “first national hero” served the role of cacique, which translates to “keeper of the house”, and later was burned at the stake in Yara by a Catholic tribunal. Alexander O’Reilly published a 1764 report criticizing this country’s ruling apparatus for the Royal Crown, and served as a Grandee and second in command of Ambrosio de Funes Villalpando. Diego Velázquez (\*) de Cuéllar served in this country as its first colonial governor and his rival Hernan Cortes launched an expeditionary force to Mexico from this colonial holding. This nation’s capital was designated as "Key to the New World and Rampart of the West Indies" by King Philip II, while that city’s El Morro fortress was taken after an 18th century invasion by the British during the Seven Years’ War. For 10 points, name this Caribbean nation ruled for six decades by Castro government from Havana.

ANSWER: Cuba <Peter/Ed PT>

4. Astor Piazzolla’s *The Four Seasons of Buenos Aires* is a piece for this many musicians. Franz Schubert’s Notturmo in E-flat major is a piece for this many performers, as is his late piece *The Shepherd on the Rock*. Rachmaninoff’s piece *Romance and Waltz* is a piece for this many piano players. A Mozart piece for this many performers is nicknamed Kegelstatt and replaces one of its genre’s usual instruments with a clarinet. A Dvorak piece in E minor for this many performers is nicknamed (\*) “Dumky.” Beethoven’s pieces for this many performers include his Opus 1, as well as pieces nicknamed “Ghost” and Archduke.” For 10 points, give this number of performers who play in a piano trio.

ANSWER: three [accept trio until mentioned] <Taylor/ Ed. TH>

5. A lesser known theory proposed by this man includes a specific graph called the *Speculum musicum* which illustrate his concept of “genres” in music. He is not John Venn, but this mathematician’s namesake diagrams are used to explain set hierarchies and overlaps between sets. A function named for him gives all relatively prime numbers less than an integer, and the limit of the difference of the harmonic series with the logarithmic function is a constant named after this mathematician and (\*) Mascheroni. A formula that says the exponential of  $i x$  equals  $\sin$  of  $x$  plus  $i$  cosine of  $x$  is named for this mathematician who solved the seven bridges of Königsberg problem. For 10 points, name this mathematician whose namesake number is equal to about 2.718 and is denoted  $e$ .  
ANSWER: Leonhard Euler (OY- lure) <Leo/Ed. JS>

6. Giorgio Perlasca operated in this nation’s capital for a month during World War II in which he saved over 5,000 Jews. This non-Russia nation was home to a group of paramilitary thugs calling themselves the “Lenin Boys.” A leader of this nation had to abdicate his position during Operation Mickey Mouse and his (\*) son was captured by an SS unit led by Otto Skorzeny. Under Ferenc Szalasi, this nation was ruled by a collaborationist fascist government known as the Arrow Cross Party. This nation commemorates the Holocaust with a memorial of bronze shoes on the bank of both sides of the Danube River in its capital, which is technically two cities. For 10 points, identify this Magyar majority nation which formed a Dual Monarchy with Austria until 1918  
ANSWER: Hungary <Zach/Ed. PT>

7. This writer is the subject of the biopic *A Quiet Passion*, which dramatizes this poet’s relationship with Mabel Loomis Todd. The sister-in-law of this poet edited a poem by this poet which cryptically ends “Without a tighter breathing / And Zero at the Bone.” That poem by this poet mentions that a snake “Loves a boggy acre / A floor to cool for corn” and is called (\*) “A narrow Fellow in the Grass.” A “Heavenly Hurt” is bestowed by the “Heft of Cathedral Tunes” in this poet’s “There’s a certain slant of light.” A morbid poem by this poet notes that “the Stillness in the Room / Was like the Stillness in the Air / between heaves of storms.” For 10 points, name this dash-using poet of “I heard a Fly buzz - when I died”, often called the Belle of Amherst.  
ANSWER: Emily Dickinson <Taylor/Ed. AS>

8. Rachel Whiteread won the Turner prize for a concrete sculpture with this name, which featured graffiti of the phrases “Wot for” and “Why not”. Gerrit Rietveld designed one of these structures named for Schroder that exemplifies De Stijl architecture. A building of this type named for Vanna Venturi features a large green front facade and is cited as a preeminent work of postmodern architecture. Frank Lloyd Wright designed a series of these buildings in L-shapes called (\*) Usonian *these*. The largest one of these by area in the United States is in Asheville, North Carolina and was owned by the Vanderbilt family. The Breakers and the Biltmore are large examples of, for 10 points, what residential buildings?  
ANSWER: houses [or homes; accept mansions] <Taylor/Ed. TH>

9. Hokusai legendarily dipped a chicken’s feet into paint of this color and had it run across a canvas when producing a painting for a king. A young flutist wears pants of this color in Manet’s *The Fifer*, and the ground is a shade of this color in Gauguin’s *Vision After the Sermon*. Barnett Newman’s massive painting *Vir Heroicus Sublimis* is primarily this color crossed by several “zips”. El Lissitzky’s best known work depicts a triangle of this color and is titled “Beat the Whites” with this colored wedge. Matisse’s *Desserts* is alternately titled for a (\*) room of this color. Yellow, blue, white, and this color comprise Piet Mondrian’s *Broadway Boogie Woogie*. For 10 points, name this color that with yellow and blue comprises the primary colors.  
ANSWER: red [accept variations like scarlet or crimson] <Alex/Ed. TH>

10. This country controls the controversial Kings Romans Casino, which lies next to its border with two other nations and is likely the site of wide spread heroin and exotic animal trade. It is illegal to climb this nation's highest peak of Phou Bia due to the large amount of unexploded ordinance that is scattered across it. Citizens of this country often line up along its longest river to watch the unexplained Naga Fireballs, which may be caused by phosphine gas buildup underwater. The (\*) Plain of Jars is an unusual collection of rock formations in this country. This country makes up the Golden Triangle zone of drug trafficking along with Burma and Thailand. For 10 points, name this landlocked southeast Asian country west of Vietnam whose capital is Vientiane.

ANSWER: Laos [or the Lao People's Democratic Republic] <Taylor/Ed. TH>

11. In a novel set in this city, the eleven-year-old Anna Kerrigan and her father Eddie befriend a gangster named Dexter. That novel is the most recent novel by Jennifer Egan. Theodore Decker survives a terrorist attack at a museum in this city in the Donna Tartt novel *The Goldfinch*. *City of Glass*, *Ghosts*, and *The Locked Room* make up a postmodern detective fiction trilogy named for this city by (\*) Paul Auster. Newland Archer spots his fiancée May Welland in the box at an opera in this city in the opening scene of *The Age of Innocence*. Francie Nolan comes of age in this city in a Betty Smith novel named for a tree growing in one of its boroughs. For 10 points name, this large American city, the primary setting of *A Tree Grows in Brooklyn*.

ANSWER: New York City [accept Manhattan; accept Brooklyn until mentioned] <Taylor/Ed. AS>

12. Atoms move along a sinusoidal potential energy surface as a result of differently polarized beams of light in a form of this process named for Sisyphus. Optical molasses is a technique for this process that uses three pairs of lasers which intersect at the target. It's not a heat pump, but the coefficient of performance describes the efficiency of a device that performs this process. In a technique based on the (\*) Doppler effect, lasers tuned slightly below an atom's absorption frequency perform this process. Newton formulated a differential equation named for this process, which states that the temperature difference between a body and its environment is proportional to the rate of this process. For 10 points, name this process that is done on food and beverages by a refrigerator.

ANSWER: cooling [accept word forms; accept Sisyphus cooling; accept polarization gradient cooling; accept laser cooling; accept Doppler cooling; accept refrigerate; accept descriptions like lowering the temperature or removing heat; prompt on heat transfer; do NOT accept "freezing"] <Leo/Ed. JS>

13. Janet Cooke won a Pulitzer Prize while working for this publication for her story about a supposed five year old heroin addict named Jimmy, though her Pulitzer was revoked when it was revealed that the story was largely a fabrication. A reporter for this publication would win a 2017 Pulitzer for an investigation that casted doubt on Trump's claims of being generous with his charitable donations. Under the editorship of (\*) Ben Bradlee, this publication published a series of documents detailing the US's involvement in Southeast Asia for four presidential administrations. Jeff Bezos purchased this newspaper in 2013. For 10 points, name this newspaper which published the Pentagon Papers after the New York Times was barred from doing so, a paper based in the US capital.

ANSWER: The Washington Post [prompt on WaPo; prompt on The Post] <Taylor/Ed. PT>

14. Net current in one of these devices is proportional to the difference between two exponential terms each representing different reactions that occur on these devices in the Butler-Volmer equation. A "working" one of these devices creates a potential difference and an "auxiliary" one keeps the current stable in a voltammetry method that utilizes three of these devices. Electroplating and sacrificial metals, like zinc, are used to (\*) protect these devices. Platinum metal coated with a thin layer of platinum black is commonly used as an inert one of these devices. Redox reactions take place on the surface of—for 10 points—what devices in electrochemical cells that can be classified as either anodes or cathodes?

ANSWER: electrodes [accept anodes or cathodes before mentioned, prompt after; prompt on battery; prompt on electrochemical cell; prompt on galvanic cell; prompt on voltaic cell; prompt on electrolytic cell] <Jonathen/Ed. JS>

15. In a play written in this language, Paulina accuses Dr. Miranda of playing Schubert's "Death and the Maiden" while raping her when she was a political prisoner. Ariel Dorfman writes in this language, as did a much earlier author who wrote the cloak and sword play *The Phantom Lady* and a historical drama about Prince Segismundo titled (\*) *Life is a Dream*. A different writer used this language to write thousands of plays, including *The Dog in the Manger* and *The Sheep Well*. A twentieth century playwright used this language to write his "rural trilogy," which includes plays about the infertile Yerma and the domineering matriarch Bernarda Alba. For 10 points, give this language used by Lope de Vega and Federico García Lorca.

ANSWER: Spanish [or Español] <Taylor/Ed. AS>

16. The final verse of the Old Testament prophecies the return of this figure. After fleeing for his life, this figure was fed by Ravens, and after being fed by the widow of Zarephath, this figure raised that woman's son from the dead. This figure appeared with Jesus and Moses at the transfiguration. This figure mocked the prophets of (\*) Baal and asked if Baal was pooping in a story that saw this figure pour water onto logs before calling on God to light them on fire. Elisha was the spiritual successor of this prophet who regularly antagonized Ahab and Jezebel. For 10 points, name this prophet that 1st Kings claims was delivered up to heaven in a chariot of fire.

ANSWER: Elijah <Brad/Ed. TH>

17. Description acceptable. One character with this *unusual* physical trait is appointed subdirector of the Tarnowitz concentration camp and is executed by firing squad in Borges' *Deutsches Requiem*. A character with this unusual physical trait is abandoned in the loft of a barn after she denies a Bible salesman sex. Another character with this physical trait declares (\*) "from hell's heart I stab at thee!" during a final encounter with the character who caused him to have this trait. A different character with this physical trait was Captain Flint's quartermaster, who befriends Jim Hawkins. For 10 points, name this injury possessed by Captain Ahab in *Moby Dick* as well as Long John Silver in *Treasure Island*.

ANSWER: having only one leg [or having a peg leg; or missing a leg; accept descriptions or clear-knowledge equivalents; prompt on any less-specific answers involving missing limbs] <Yonathan/Ed. AS>

18. Eudoxus of Cnidus is thought to have built an early one of these structures, and Hipparchus of Bithynia built one of these structures on the island of Rhodes. A Timurid example of one of these buildings was made by Ulugh Beg in Samarkand. The island of Hven was the site of one of these buildings called Uraniborg, built by (\*) Tycho Brahe. Contemporary facilities of this type are located at Green Hill and Greenwich. Though it also had religious functions, Stonehenge is thought to have been a primitive one of these facilities. Ancient and medieval examples of these structures made use of armory sphere and astrolabes. For 10 points, name these scientific facilities constructed to analyze celestial objects.

ANSWER: observatory [prompt on astronomical building or similar answers indicating somewhere to view the heavens] <Taylor/Ed. PT>

19. A work partially titled for this man, which applied his theories to technology, was published in *The Press in Christchurch, New Zealand* under the pseudonym Cellarius. That work by Samuel Butler is titled for [this man] *Among the Machines*. Asa Gray framed an idea by this man as an "intermediate cause" instituted and sustained by God. This man's ideas are the subject of a work that contrasts "cranes" with fallacious "skyhooks" written by (\*) Daniel Dennett, which is titled for [this man's] *Dangerous Idea*. This man's best known theory was heavily influenced by his reading of Charles Lyell's *Principles of Geology*. For 10 points, name this author of *On the Origin of Species* who put forth the theory of evolution.

ANSWER: Charles Darwin <Alex/Ed. AS>

20. In the 1993 supreme court case *J.E.B. v. Alabama*, the court ruled that a peremptory challenge could not be made based on this quality of a juror. The 2011 supreme court case *Wal-Mart v. Dukes* regarded discriminatory practices on the basis of this concept. The theory that this concept is expressed through performance was outlined in a work titled for *[this concept's] Trouble* by Judith (\*) Butler. The “wage gap” generally refers to the difference in pay rates between people based on this classification, and non-binary refers to people who do not identify as one of the standard classes of this concept. For 10 points, what is this concept that has historically been used to refer to whether a person is male or female?

ANSWER: **gender** [accept **sex**; accept ***Gender Trouble***; accept **gender** identity] <Alex/Ed. AS>

**Bonuses:**

1. The seventh leader of this clan, Ietsugu, was just three years old when he became *shogun* in 1713. For 10 points each:

[10] Name this Japanese clan that ruled from Edo. This clan headed the last feudal military government of Japan, and their first shogun was Ieyasu.

ANSWER: The **Tokugawa** Clan [accept **Tokugawa** Shogunate]

[10] The heads of the feudal hierarchy during the Tokugawa shogunate were these “lords” who owned most of the land in the country. They often hired samurai to protect their lands.

ANSWER: **daimyo**

[10] The beginning of the Tokugawa shogunate is often traced to this 1600 battle, at which Ieyasu triumphed over Toyotomi Hideyoshi.

ANSWER: Battle of **Sekigahara** <Taylor/Ed. PT>

2. Stories about this location include one about a spider spinning a web across its entrance and another about branches sprouting and surrounding this location. For 10 points each:

[10] Name this pilgrimage site on the mountain Jabal al-Nour. This location was where the angel Jibril revealed part of a holy text to a prophet on the Night of Power.

ANSWER: **Hira** [accept but do not otherwise reveal Muhammad's **cave** or any general answers indicating a **cave** or **cavern**]

[10] That aforementioned prophet was this man, to whom the text of the Quran was revealed. His followers collected his sayings and recorded them as the *Hadiths*.

ANSWER: **Mohammed** [or **Muhammed** ibn Abd Allah]

[10] This first convert to Islam outside the Muhammed family hid in the cave of Jabal Thawr with Muhammed during the Hijra. This father of Aisha became the first caliph of the Rashidun Caliphate after Muhammad's death.

ANSWER: **Abu Bakr** [or Abdullah ibn **Abi Quhafa**] <Taylor/Ed. TH>

3. A meme notes that the media says “She’s the greatest” because Beyonce released one album every three years, while ignoring this composer even though he wrote over two hundred pieces for the lute. For 10 points each:

[10] Name this English renaissance composer best remembered for his songs for lute and voice like “Flow My Tears” and “In darkness let me dwell.”

ANSWER: John **Dowland**

[10] This much-later English composer used Dowland’s work for his solo guitar piece *Nocturnal after John Dowland*. He also wrote the opera *Peter Grimes* and *The Young Person’s Guide to the Orchestra*.

ANSWER: Benjamin **Britten**

[10] This Australian composer was also a known fan of Dowland, as he arranged Dowland’s *Now, O now I needs must part* for piano. This man is best known for concert band music like his *Lincolnshire Posy* and *Country Gardens*.

ANSWER: Percy **Grainger** <Taylor/Ed. TH>

4. This city is the primary setting of the most famous novel of Walker Percy, featuring the character Binx Bolling. For 10 points each:

[10] Name this setting of a novel home to Ignatius Riley, an overweight, pseudo-intellectual in John Kennedy Toole’s *A Confederacy of Dunces*.

ANSWER: **New Orleans**, Louisiana [accept The **Big Easy** or other fun nicknames for **NOLA**]

[10] The aforementioned Walker Percy novel is titled for a person who attends these events. Manuel Puig’s *Kiss of the Spider Woman* mostly consists of a prisoner describing the plots of some of these works.

ANSWER: **movies** [or **films**; accept *The Moviegoer*]

[10] This earlier writer partially set her novella *The Awakening* in New Orleans. She is also known for short stories like “The Storm” and “The Story of an Hour.”

ANSWER: Kate **Chopin** <Taylor/Ed. AS>

5. The French thinkers Paul Hoste and Sebastien Bigot de Morogues were best known for their works about this subject. For 10 point each:

[10] Name this subject, tacticians of which may advocate raking or doubling as methods of “breaking the line.” Richard Kempenfelt’s system of signalling greatly improved English strategy in this process.

ANSWER: **naval** warfare [accept **naval** strategy, tactics, etc; accept anything having to do with using **ships** for military ends; prompt on **warfare**]

[10] A successful example of navel doubling, or surrounding the enemy line on both sides, happened at the Battle of the Nile under the command of this British officer. This man also won naval victories for the English at Copenhagen and Trafalgar.

ANSWER: Horatio **Nelson**

[10] One naval innovation of the 19th century was the adoption of this technology to combat the use of shell guns. The first battle between two ships with this characteristic was the Battle of Hampton Roads.

ANSWER: **armored** hulls [accept **ironsides** or **ironclads**; accept **metal-plated** hulls or sides of ships] <Taylor/Ed. PT>

6. According to Ovid this figure was not allowed to enter Hades by his lover and was instead turned into the flower that now bears his name. For 10 points each:

[10] Name this lover of Apollo who was killed by a discus that may have been blown into him by a jealous Zephyrus.

ANSWER: **Hyacinthus**

[10] Zephyrus was one of the Greek gods of this natural phenomena, particular the “West” variety of it. Other gods of this weather phenomenon include Boreas and Auster.

ANSWER: the **wind**

[10] According to the *Biblioteca*, this hero unknowingly killed his grandfather Acrisius with a misthrown discus. This hero earlier had saved Andromeda from the sea monster Cetus.

ANSWER: **Perseus** <Taylor/Ed. TH>

7. I’m pickin’ up good vibrations from chemistry. For 10 points each:

[10] This type of spectroscopy, sometimes called vibrational spectroscopy, uses light with wavelengths longer than that of visible light to study the vibrational modes of molecules.

ANSWER: **infrared** spectroscopy [or **IR** spectroscopy]

[10] This rule gives the probability of vibronic transitions as proportional to the square of an overlap integral between wavefunctions in the initial and final states. This principle furthers the Born-Oppenheimer approximation by assuming that the nucleus is stationary during electronic transitions.

ANSWER: **Franck-Condon** principle [accept **Condon** approximation]

[10] The vibrational modes of a molecule are described by the Morse potential, which extends this model to include bond dissociation. The energy eigenvalues of this model are half-integer multiples of h-bar times omega.

ANSWER: **quantum harmonic oscillator** [or **QHO**; prompt on **harmonic oscillator**; do NOT accept or prompt on “simple harmonic oscillator”] <Jonathen/Ed. JS>

8. In a speech to the Chorus, this character laments that women must suffer from childbirth and their cruel husbands, and that they cannot participate in public life. For 10 points each:

[10] Name this women who slaughters her two children to take revenge on her ex-husband Jason in a play by Euripides.

ANSWER: **Medea**

[10] At the end of the play, Medea escapes Jason in a chariot drawn by several of these creatures. These creatures were given to her by the sun god Helios.

ANSWER: **dragons**

[10] The dragon-chariot in Medea is a classic example of this Greek literary trope, in which a deity steps in out of nowhere to resolve a plot element.

ANSWER: **deus ex machina** [or “**god from the machine**”] <Taylor/Ed. AS>

9. If this object were to exist, it would explain the orbit of Kuiper belt objects like Sedna. For 10 points:

[10] Name this astronomical object, which could explain the clustering of trans-Neptunian objects. Mike Brown and Konstantin Batygin research this hypothetical object that would be more voluminous and massive than Earth.

ANSWER: **9th Planet** [accept **Planet Nine**; accept **Planet X** (“ex”); accept **Jehoshaphat**; accept **George**; accept **Fatty**; prompt on descriptions like planet beyond Neptune; do NOT accept “Planet Ten”; do NOT accept “Nibiru”]

[10] This hypothesized star would explain the perceived cycle of mass extinction events on Earth. The WISE survey ruled out the existence of this star being within 10 light years of the Sun.

ANSWER: **Nemesis**

[10] This theory explains Mercury’s precession without the need for the hypothetical planet Vulcan. This theory describes gravity as the result of the curvature of spacetime.

ANSWER: **general relativity** [or **GR**; prompt on relativity; do not prompt or accept “special relativity”]  
<Leo/Ed. JS>

10. An illustrated interpretation of this collection was written by Paramahansa Yogananda. For 10 points each:

[10] Identify this collection of quatrains by Omar Khayyam. The best known translation of this collection was produced by Edward Fitzgerald.

ANSWER: *The **Rubaiyyat** of Omar Khayyam*

[10] A famous line from Fitzgerald’s translation notes that “The moving finger writes; and, having writ,” performs this two-word action. Give the exact two words from the Fitzgerald translation.

ANSWER: **moves on**

[10] The Rubaiyat was originally written in this language. Ferdowsi’s *Shahnameh* was also written in this language.

ANSWER: **Farsi** [or **Persian**] <Alex/Ed. AS>

11. The Woods-Saxon potential is used to approximate the central potential well in this model. For 10 points each:

[10] Name this microscopic model that is contrasted with the macroscopic liquid drop model. Maria Goeppert-Mayer and Hans Jensen independently developed this model in 1949.

ANSWER: nuclear **shell** model [do not accept “atomic shell”]

[10] Two nucleon separation energy can be used to predict these quantities, which describe how many nucleons are in each shell. Maria Goeppert-Mayer had to introduce spin-orbit coupling to calculate any of these quantities larger than 20.

ANSWER: **magic numbers**

[10] The nuclear shell model applies this statement to say that no two nucleons of the same kind can be in the same state. In the atomic shell model, this statement says that if two electrons are in the same orbital, they must have different spins.

ANSWER: **Pauli exclusion** principle <Jonathen/Ed. JS>

12. Answer some questions about Norwegian literature, for 10 points each:

[10] Norwegian author Ole Edvart Rolvaag’s novel *Giants in the Earth* is about a Norwegian family emigrating to this country. Upton Sinclair’s *The Jungle* also focuses on European immigrants living in this country.

ANSWER: **United States** of **America**

[10] Norwegian author Knut Hamsun is best known for a novel titled for this physical condition. A long prose-poem by Herta Mueller is name for this kind of Angel, and an “artist” experiencing this condition is replaced in his cage by a panther in a Franz Kafka story.

ANSWER: **hunger** [accept being **hungry**]

[10] Probably the most famous contemporary Norwegian author is this author of the autobiographical “My Struggle” series. This author is sometimes called the Norwegian Proust for his detailed, personal style.

ANSWER: Karl Ove **Knausgaard** <Taylor/Ed. AS>



13. In the lead up to this battle, General Beauregard sent a message to Robert Anderson demanding an immediate evacuation of this battle's namesake building. For 10 points each:

[10] Name this civil war battle which saw future baseball inventor Abner Doubleday defend the namesake structure along with Anderson. Edmund Ruffin fired the first shot at the supply ship *Star of the West* at this battle.

ANSWER: Battle of **Fort Sumter**

[10] The Battle of Fort Sumter took place in this state, which was the first to secede from the union, citing the North's failure to enforce the Fugitive Slave Act.

ANSWER: **South Carolina** [or **SC**]

[10] One of the first actions of the confederacy was to demand the Union abandon Fort Sumter, as well as Forts Taylor and Jefferson, both located in this archipelago. Those forts stayed in Union possession throughout the war because they were too far from the confederate-controlled shore for bombardment.

ANSWER: The **Florida Keys** <Taylor/Ed. PT>

14. Identify some things about the intersection of jazz music and poetry, for 10 points each:

[10] Poet Amiri Baraka recorded a jazz-poetry album with Sun Ra, a player of this instrument, also played by Herbie Hancock, Chick Corea, and Count Basie.

ANSWER: **piano** [or **keyboard**]

[10] This bandleader's album *A Modern Jazz Symposium of Music and Poetry* incorporated spoken word narrative poems into third stream jazz song structure. This bassist also made the albums *Blues & Roots* and *The Black Saint and the Sinner Lady*.

ANSWER: Charles **Mingus**

[10] Joy Harjo, a poet of this general ethnic group, recorded the jazz-poetry album *Letter From the End of the Twentieth Century*. Musical forms distinct to these general people include sacred flute music and water drum percussion.

ANSWER: **Native American** [or American **Indians**; anti-prompt on any specific North American tribes] <Taylor/Ed. TH>

15. Ernst Mach adapted this philosophical statement to physics, claiming that that "scientists must use the simplest means of arriving at their result." For 10 points each:

[10] Name this "law of parsimony" that can be expressed succinctly as "the simplest explanation is usually correct."

ANSWER: (William of) **Ockham's Razor**

[10] Ockham wrote a text on this discipline titled for the "Sum of *[this discipline]*." This discipline's "modal" form was studied by Saul Kripke.

Answer: **logic**

[10] Ockham is often associated with this philosophical idea, which holds that there are no universals.

ANSWER: **nominalism** <Alex/Ed. AS>

16. Due to this man's funeral being delayed, his body was so bloated that it exploded when attempting to fit him into his tomb. For 10 points:

[10] Name this so-called "Conqueror" who defeated Harold Godwinson at the Battle of Hastings.

ANSWER: **William** I [or **William** the Conqueror]

[10] William commissioned this "Great Survey" which was written in part to collect taxes owed to the crown during the reign of Edward the Confessor twenty years in the past.

ANSWER: **Domesday** Book [Accept Book of **Winchester**]

[10] County lists in the Domesday Book opened by repeating that all English lands are this type of royal holding. It's not a fief, but this Old French term refers to lands held by a lord of the manor for their own use.

ANSWER: **demesne** [pronounced di-MAYN] <Peter/Ed. PT>

17. It's not predation, but the Lotka-Volterra model can be used to analyze this process. For 10 points each:

[10] Name this process that has exploitative and interference types. Character displacement is driven by this process in which organisms fight for the use of a limited resource.

ANSWER: **competition**

[10] The competitive exclusion principle says that two organisms cannot coexist if they inhabit the same one of these theoretical concepts. Elton defined this concept as the function a species performs in its community.

ANSWER: ecological **niche**

[10] This ecologist and Daniel Janzen hypothesized that natural enemies maintain floral biodiversity in the tropics by consuming seeds. This non-Darwin biologist's experiments on barnacles supported the competitive exclusion principle.

ANSWER: Joseph H. **Connell** <Jonathen/Ed. JS>

18. Paula Modersohn-Becker's *Self Portrait on Sixth Wedding Anniversary* shows the artist with this condition. For 10 points each:

[10] Give this condition that Mary is informed she will have in renaissance Annunciation paintings. Contrary to popular belief, the bride in *The Arnolfini Wedding* likely does not have this condition.

ANSWER: **pregnancy** [accept logical equivalence like being with child]

[10] One of the earliest depictions of pregnancy in art is found in this fertility figurine, dated to be about twenty-seven thousand years old. This figurine features large breasts and hips but no face, and is named for the Austrian village where it was discovered.

ANSWER: The **Venus of Willendorf**

[10] This artist painted the model Herma pregnant in his paintings *Hope I and II*. This gold-leaf using Vienna Secessionist also painted *The Kiss* and *The Beethoven Frieze*.

ANSWER: Gustav **Klimt** <Taylor/Ed. TH>

19. Answer some questions about undeciphered writing systems, for 10 points:

[10] The Jiahu symbols of the Peiligang culture and the Bampo symbols of the Yangshao culture are both undeciphered proto-writing systems from this modern day country, whose languages include Cantonese.

ANSWER: **China**

[10] The exact meaning of this system of knot-writing from the Incan empire is still unknown. This system may have been used to record the Aymara and Quechua spoken languages.

ANSWER: **quipus** [or **kipu** or **talking knots**]

[10] This script used by the Minoan civilization is one of the two undeciphered ancient Greek scripts along with Cretan Hieroglyphs. It is believed to be the origin of a similarly named script used by the later Mycenaeans.

ANSWER: **Linear A** [DO NOT accept "Linear B"] <Taylor/Ed. AS>

20. A mother reads aloud from a German translation of the *Heptameron* in one scene of this film, which features two distinct dancing scenes set to the Psychedelic Furs song "Love My Way." For 10 points each:

[10] Name this Luca Guadagnino directed film based on a novel by Andre Aciman. It features the romance between the bisexual Elio and Oliver during the summer of 1983 in northern Italy.

ANSWER: **Call Me By Your Name**

[10] In *Call Me By Your Name*, Elio's father is an archaeologist who studies Greek and Hellenistic examples of these artworks. He calls Praxiteles the finest example of an artist who produced these works in ancient Greece.

ANSWER: **sculptures** [accept more specific answer on types of **sculptures**]

[10] Oliver gets frustrated at Elio when Elio plays a piece by this composer first in the style of Liszt, then in the style of Busoni. Busoni's *Fantasia Contrappuntistica* is an homage to a set of works by this composer.

ANSWER: **Johann Sebastian Bach** <Taylor/Ed. TH>