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Toss Ups:

1. The *Lophelia pertusa* species of these organisms is found in the sand boils that make up the Darwin Mounds. An extinct order of these organisms used as index fossils is called *Rugosa*, and William Herschel was the first to correctly identify these organisms as animals. An infection of these organisms by bacteria in the genus *Phormidium* causes black (*) band disease. Skeletal cups made of aragonite are secreted by these marine organisms, which are damaged by cyanide fishing and bottom trawling. These cnidarians that do not have a medusa stage in their life cycle expel zooxanthellae in their namesake bleaching. For 10 points, name these cnidarians whose stony variety build reefs.

ANSWER: corals [accept coral reef] <Jonathen/Ed. JS>

2. A 75-year-old leader of one faction in this conflict was killed by a sniper while he was fleeing to Ma'rib. An infamous Economist article claimed that a humanitarian disaster exacerbated by this conflict was actually a result of the chewed drug *qat* rather than military action. Operation Decisive Storm is the code name a nine-county coalition involved in military intervention in this conflict. The US military has been criticized for (*) refueling bombers participating in this conflict. In this conflict, Abdrabbuh Mansour Hadi's government has been supported by Saudi airstrike and blockades, which have lead to widespread famine and cholera outbreaks. For 10 points, name this ongoing conflict between the government of a Middle Eastern Nation and the Houthi rebels.

ANSWER: Yemen Civil War [accept any answers indicating a war in Yemen; accept Saudi intervention in the conflict in Yemen] <Taylor/Ed. TH>

3. In a novel by this author, the protagonist meets a dwarf named Wisteria, whom his lesbian friend Idabel falls in love with while visiting a carnival. Joel Knox travels to Skully's Landing to live with his paralyzed and eyelid-less father at the beginning of another of his works. This man wrote another book in which Dick and Perry's homoerotic relationship culminates in a botched robbery and quadruple murder in (*) Holcomb, Kansas. That book is sometimes called the first non-fiction novel and details the life and death of the Clutter Family. A prominent conspiracy theory about this author of *Other Voices Other Rooms* contends that this man, not Harper Lee, wrote *To Kill a Mockingbird*. For 10 points, name this American author of *In Cold Blood*.

ANSWER: Truman Capote <Taylor/Ed. AS>

4. This activity is undertaken by *mchinja-chinjas* in Swahili folklore, and served as one focus of William Arens' seminal doctrine on this activity. The Nigerian "Leopard Society" was known for performing this activity after brewing *borfima* to gain superhuman powers. This atrocity was committed upon young children by the Liberian military leader Joshua Blahyi, also known as General Butt Naked. After 100 children refused to wear a uniform designed by his wife, Central African Republic-dictator Jean-Bedel Bokassa supposedly committed this action while serving their (*) flesh to guests. For 10 points, Idi Amin was accused of what crime that involves eating other people?

ANSWER: Cannibalism [Accept Man-Eating specifically after "Myth"; accept drinking blood before "Myth," prompt on it after; accept other synonyms for cannibalism such as eating people or consuming homo sapiens sapiens] <Tracy/Ed. PT>

5. Charles Villiers Stanford wrote a set of six rhapsodies named for this country. Though he is not from this country, a composer whose surname is the same as this country wrote the motet “Greater Love Has No Man” and the hymn “The Holy Boy.” A composer from this country is credited with writing the first nocturnes. The cruit (crit) and the clairseach (CLOOR-sha) are harp-like instruments used in this country’s traditional folk music. (*) *Riverdance* is a theatrical show featuring the traditional music of this country. Traditional ballads originating in this country include Molly Malone and Danny Boy. For 10 points, name this country of origin of John Field, whose traditional music often utilizes the fiddle to play jigs.

ANSWER: Ireland <Taylor/Ed. TH>

6. In his book about this event, A.A. Hoehling accused rigger Erich Spehl of causing this event, a theory which has become known as the Sabotage Hypothesis. That theory is often dismissed in favour of the more widely accepted Static Spark Hypothesis of this event’s origin. Journalist Herbert Morrison popularized the phrase (*) “Oh the humanity” while giving an impassioned radio broadcast describing this event firsthand. This event, which took place in Manchester Township, New Jersey, began when the central craft attempted to dock at a mooring mast only to burst into flames, killing 97 passengers. For 10 points, name this aeronautical disaster of 1937 which brought an end to nearly all airship travel.

ANSWER: The Hindenburg Disaster [accept any answer indicating the destruction of the Hindenburg Airship] <Taylor/Ed. PT>

7. In 2017, a collective of artists from this artist’s home country used an Instagram account to construct a nearly 1000-post long version of a public sculpture by this artist. That sculpture by this artist was nearly pulled down due to it being considered “Degenerate Art,” and renovations placed a 98-foot tall stainless steel spine between its many rhomboidal segments. This artist constructed a WWI monument in Târgu Jiu that included the (*) *Table of Silence* and the *Endless Column*. This artist experienced controversy when a set of his artworks were classified under “Kitchen Utensils” by the United States Customs. For 10 points, name this Romanian sculptor who created *Bird in Space*.

ANSWER: Constantin Brâncuși (bran-koosh) <Tracy/Ed. TH>

8. Opening epoxides when this value is low results in addition to the (emphasize) *most* substituted carbon. ISFETs are used to detect changes in this quantity, and reactions that are independent of this quantity are represented by horizontal lines in a Pourbaix diagram. The value of this quantity at which a molecule has zero electric charge is the isoelectric point, and this quantity is calculated from the (*) pK_a of a buffer solution using the Henderson-Hasselbalch equation. Litmus paper changes color in response to a change in this quantity that is equal to the negative logarithm of the concentration of H-plus ions. For 10 points, name this quantity that is used to measure the acidity or basicity of a solution.

ANSWER: pH [accept power of hydrogen; accept potential hydrogen; accept potential of hydrogen ion] <Jonathon/Ed. JS>

9. One author with this surname described the destruction of the Praying Town Indians in *A Century of Dishonor*. A novel by a different author with this surname describes the ostracism of the Blackwood family in the title building after many of their members die of arsenic poisoning and is titled (*) *We Have Always Lived in the Castle*. In the best known work of that author with this surname, wood chips are substituted for paper in a barbaric ritual that results in the stoning of Tess Hutchinson. For 10 points, give this surname of the author of the short story “The Lottery.”

ANSWER: Jackson [accept Helen Hunt Jackson; accept Shirley Jackson] <Alex/Ed. AS>

10. Hiroaki Inami used *post-this term* to describe the religious thought of Shinobu Orikuchi and D.H. Lawrence. The name members of the Druze faith use to refer to themselves as a religious community refers to the fact that they practice this belief. Sigmund Freud claimed that Moses was ethnically Egyptian rather than Hebrew in a text named for (*) Moses and *this concept*. In Islam, a hanif refers to someone who maintained this belief during the pre-Islamic Age of Ignorance, and *tahwid* is the Arabic term for this belief. Akhenaten's *Hymn to Aten* is the first known text advocating this belief, which is thought to have developed after animism and polytheism. For 10 points, give this term that refers to the belief that there is only one god.

ANSWER: **monotheism** [accept descriptive answer indicating the belief in **one god** or **one deity** before mentioned; accept **tawhid** before mentioned; accept **unitarianism**; accept post-**monotheism**] <Taylor/Ed. TH>

11. A poem about this figure tells the addressee to “Get some self-respect / and a day job” and is titled *this figure* “does countertop dancing.” Another poem about this figure describes “white ash amid funereal cypresses” and declares that “All Greece hates / the still eyes” of this figure. In addition to that poem by H.D., a poem about this figure discusses “the (*) glory that was Greece and the grandeur that was Rome” and describes how this figure’s beauty resembles the “Nicean barks of Yore.” For 10 points, Christopher Marlowe described what Greek woman as having the “face that launched a thousand ships?”

ANSWER: **Helen** of Troy <Alex/Ed. AS>

12. This object was used to search for hydroxyl group emissions on such objects as Hidalgo and Oljato, which would reveal whether or not those bodies once were surrounded by a coma. Projects that make use of this object include 2010 to 2013’s CANDELS and the ongoing Frontier Fields program. The COSTAR corrective optics package was installed on this object by STS-61 after it was discovered that some (*) mirrors used in this object were improperly ground. An object named for James Webb is slated to replace this object in 2019. This object is considered one of the four “Great Observatories” along with objects named for Spitzer, Compton, and Chandra. For 10 points, name this NASA space telescope launched in 1990, known for taking extremely high resolution images called “deep fields,” named for an American astronomer.

ANSWER: **Hubble** Space Telescope <Taylor/Ed. JS>

13. Richard Sennett argues that most people believe in a right to be left alone in a book named for the fall of this type of man. It's not “social” or “rational,” but this adjective describes a type of “choice theory” that applies the idea of a self-interested actor from economics to the problems of political science. Jurgen Habermas used this adjective to describe an imagined community where individuals can come together to discuss and identify social problems in his book on the structural transformation of this type of (*) “sphere.” Fire brigades and paramedics are considered to be services described by this adjective because they are provided by the government rather than businesses. For 10 points, identify this term that describes an economic sector which is operated by the government, which is often contrasted with the private sector.

ANSWER: **public** [accept word forms like **publically** owned; accept *The Fall of **Public** Man*; accept **public** choice theory; accept *Transformation of the **Public** Sphere*; accept **public** service] <Taylor/Ed. AS>

14. Germaine de Stael described how she adopted some of this man’s philosophical views in her *Letters on the works and character of [this man]*. He described how human language began in warm climates, then spread to colder climates, in his *Essay on the Origin of Languages*. This man claimed that young girls should be taught to please men in his “Profession of Faith of a Savoyard Vicar” in a treatise on education written in the style of a *Bildungsroman*. This thinker claimed that the first man to (*) fence off a piece of land and call it property was the founder of civil society in his *Discourse on Inequality*. This author of *Emile, or On Education* contrasted the “general will” with the “will of all” in a work that claims “man is born free, and everywhere he is in chains.” For 10 points, name this French thinker who wrote *The Social Contract*.

ANSWER: Jean-Jacques **Rousseau** <Alex/Ed. AS>

15. A song by Smash Mouth with this title notes “At the airport restaurant I asked your name.” This word names Captain Beefheart's backing band for albums like *Trout Mask Replica*. This word is the name of a band who collaborated with Sean Paul on the track “Lay You Down Easy” from their album *Primary Colours*. In another song, that band of this name asked (*) “Can I have your daughter for the rest of my life?” and “Why you gotta be so rude?” This word is the last word in the title of a song whose speaker implores “Put your pinky rings up to the moon” and describes the title concept as being “in the air.” For 10 points, what word follows “24 Karat” in a 2016 Bruno Mars Hit?

ANSWER: magic [accept 24K Magic or 24 Karat Magic; accept the Magic Band] <Alex/Ed. TH>

16. Leo Kadanoff used a block-spin renormalization group to study scale invariance and universality in these phenomena. Kosterlitz and Thouless name one of these phenomena in the XY model that is an example of one of these phenomena in which spontaneous symmetry breaking does not occur. Taylor expansions in terms of the order parameter were used by Lev (*) Landau in his theoretical work on these phenomena. According to the Ehrenfest classification, a discontinuity in the derivative of free energy is observed in the first order type of these phenomena. The energy required for a material to undergo one of these phenomena is its latent heat. For 10 points, name these phenomena exemplified by sublimation, deposition, and melting.

ANSWER: phase transitions [or phase changes; do not accept or prompt on partial answer] <Jonathen/Ed. JS>

17. A play by Bruce Norris set in this city features two acts set fifty years apart and focuses on the grieving parents Bev and Russ. That play set in this city won the 2011 Pulitzer for Drama and is called *Clybourne Park*. Though it is part of the Pittsburgh Cycle, August Wilson's play *Ma Rainey's Black Bottom* is actually set among the blues musicians of this city. A play set in this city which takes its title from a line by (*) Langston Hughes portrays the financial troubles of the Younger family and Walter's plan to buy a liquor store. For 10 point, identify this American city, the setting of Lorraine Hansberry's *A Raisin in the Sun*, which is called “Hog Butcher for the World” in a Carl Sandburg poem.

ANSWER: Chicago <Taylor/Ed. AS>

18. In this century, Franz von Sickingen led an uprising of knights against the Archbishop of Trier. In this century, John of Leiden had a personal harem of sixteen wives after establishing a polygamous theocracy in Münster. Aristocratic forces quashed the German Peasants Rebellion in the second decade of this century. Erasmus and (*) Philip Melanchthon published their works in this century, which also saw the real presence of Christ in the Eucharist debated at the Marburg Colloquy. Holy Roman Emperor Charles V presided over the Diet of Worms in this century, which passed judgement on a man who earlier in this century had posted 95 Theses on a church door in Wittenberg. For 10 points, name this century in which Martin Luther kicked off the Protestant Reformation.

ANSWER: The 16th Century [or the 1500s] <Taylor/Ed. PT>

19. The architect of this building had an assistant search the streets of a city for an emaciated donkey that was used for the basis of a life-sized donkey sculpture in this building's Nativity Facade. This building was designed to be one meter shorter than nearby Montjuic. Religious newspaper magnate Josep Maria Bocabella commissioned this building, which had a series of preparatory models of it destroyed by anarchists. This building, which combines (*) neo-gothic and Art Nouveau styles, was begun in 1882 and has a planned completion date of 2026. For 10 points, name this massive unfinished Roman Catholic church designed by Antoni Gaudí located in Barcelona, named for Mary, Joseph, and Jesus.

ANSWER: La Sagrada Familia [or Church of the Holy Family; or Basílica i Temple Expiatori de la Sagrada Familia; accept Basílica i Temple Expiatori de la Sagrada Familia; accept Templo Expiatorio de la Sagrada Familia] <Taylor/Ed. TH>

20. **The Gayer-Anderson statue is a well preserved work of art depicting one of these animals. Herodotus reports that in a certain culture, when one of these animals died it was customary for one to shave off their eyebrows and mourn until they grew back. It is said that Muhammad (*) once cut off part of his robe so as not to disturb a sleeping one of these animals named Muezza. Bubastis was a burial site for many of these animals, which were often mummified. For 10 points, name these small animals revered in ancient Egyptian culture, which were likely first domesticated to kill vermin like mice.**

ANSWER: **cats** [accept house **cat**s or **felines**] <Taylor/Ed. PT>

Bonuses:

1. The dragon-like Mushussu depicted on the Ishtar Gate is the sacred animal of this figure and is often depicted alongside him. For 10 points each:

[10] Name this patron deity of Babylon who defeated the primordial sea dragon Tiamat and took the Tablets of Destiny from Kingu.

ANSWER: **Marduk**

[10] The story of Marduk is recounted in this Babylonian creation myth, recovered from the library of Ashurbanipal in Nineveh. This text was originally written in cuneiform and survived on seven clay tablets.

ANSWER: **Enuma Elish**

[10] Another source for Babylonian myth is an “Epic” named for this legendary king of Uruk. This guy searches for the key to immortality after being shook by the death of his bestie Enkidu.

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

2. One person with this surname argued that Britain has seen a de facto decriminalization of drugs in his 2012 book *The War We Never Fought*. For 10 points each:

[10] Give this surname of two English public intellectuals. Many people see one man with the surname’s book *The Rage Against God* as a rebuttal to his brother’s anti-religious book *God is Not Great*.

ANSWER: (Peter or Christopher) **Hitchens**

[10] Peter Hitchens criticized his brother Christopher for Christopher’s choice of this man in his episode of the BBC’s *Great Lives*. This Soviet leader formulated a namesake flavor of Marxism that calls for permanent revolution before being exiled and killed in Mexico.

ANSWER: Leon **Trotsky**

[10] Contra his Marxist brother, Peter Hitchens’ thought is usually described as being of the Burkean brand of this broadly defined ideology. William F. Buckley and Leo Strauss are American figures in its “neo” form.

ANSWER: **Conservatism** [accept **Conservative**; accept Burkean **Conservative**; accept neo-**Conservatism**; prompt on right wing] <Taylor/Ed. AS>

3. Name some times when translating into a dead language has given some Biblical scholars some serious problems. For 10 points each:

[10] St. Jerome’s translation of the original Hebrew into the Vulgate gave this figure literal horns instead of horns of light on his head when he came down from Mount Sinai. This man received the Ten Commandments from God and parted the Red Sea.

ANSWER: **Moses**

[10] Some scholars have, sadly, debated endlessly about the origin of some figs trees in Jesus’s parables. In reality, Tyndale just translated gendered pronouns wildly into English, rather than bothering to learn pronouns in this language that Jesus spoke. This semitic language is considered endangered because each of its remaining native speakers are all Neo-Assyrians and older than 50.

ANSWER: **Aramaic**

[10] The so called “Wicked Bible” resulted in massive book burnings and incredible fines after a printer omitted the word “not” before this word. Readers were instructed to commit this sin notably practiced by King David.

ANSWER: **adultery** [accept equivalent] <Brad/Ed. TH>

4. This composer wrote the heavily atonal *St. Luke’s Passion*, which premiered in 1966. For 10 points each:

[10] Name this avant garde composer who employed 52 string instruments playing sonoristically in *Threnody for the Victims of Hiroshima*, which was used in a season three episode of *Twin Peaks*.

ANSWER: Krzysztof **Penderecki**

[10] Penderecki has collaborated with this composer of the soundtracks to the films *There Will Be Blood*, *Inherent Vice*, and most recently *Phantom Thread*. He is also the lead guitarist for the rock band Radiohead.

ANSWER: Jonny **Greenwood**

[10] Penderecki hails from this nation whose other contemporary composers include Henryk Gorecki and Witold Lutoslawski. Dances from this nation include the mazurka and the polonaise.

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

5. Name some ways you could use to solve ordinary differential equations, for 10 points each:

[10] After using separation of variables, one must perform the indefinite form of this operation on both sides. This operation will remove the differentials and produce a namesake constant usually symbolized C.

ANSWER: **integration** [accept word forms; accept taking the **integral**]

[10] If your equation cannot be solved by separation of variables, it may be useful to take this kind of transform. This transform is defined as the integral over t from zero to infinity of f of t times e to the negative s t.

ANSWER: **Laplace** transform

[10] For ODEs that cannot be solved explicitly as combination of finite functions, it may be useful to employ one of these constructs. One may use one of these constructs by expanding on the expression c-sub-n times x to the n.

ANSWER: **power series** [prompt on **series**] <Taylor/Ed. JS>

6. A nude young girl crosses her arms as she sits on a bed in this artist's painting *Puberty*. For 10 points:

[10] Name this artist who showed a dark haired man embracing a red haired woman in *Love and Pain*, usually called *The Vampire*. This symbolist also painted a bare breasted Madonna with a red halo.

ANSWER: Edvard **Munch**

[10] Munch is certainly best known for this painting, in which an anguished looking figure performs the title action on a bridge below red and orange skies.

ANSWER: *The **Scream*** [accept **Skrik**]

[10] All of the aforementioned paintings are part of this series by Munch, featuring groups of paintings named for Love, Angst, and Death. Other painting in this series include *Death in the Sickroom* and *Ashes*.

ANSWER: *The **Frieze of Life*** <Taylor/Ed. TH>

7. It is a common misconception that this equation explains the upward lift experienced by airplane's wings. For ten points each:

[10] Name this equation which states that an increase in the speed of a fluid results in a decrease in pressure. Assuming an incompressible fluid with negligible friction, this equation says that pressure plus kinetic energy density plus gravitational potential energy density is a constant.

ANSWER: **Bernoulli's** equation [accept **Bernoulli's** principle]

[10] By assuming negligible friction, Bernoulli's equation ignores forces due to this property of a fluid. The Laplacian of fluid velocity is multiplied by one form of this quantity in the incompressible Navier-Stokes equations.

ANSWER: **viscosity** [accept kinematic **viscosity**]

[10] If the ratio of fluid velocity to this quantity is less than 0.3, then a fluid can be approximated as incompressible. A sonic boom is generated when an object travels faster than this quantity, which is about 343 m/s in air.

ANSWER: **speed** of **sound** <Leo/Ed. JS>

8. In one work, this thinker contrasted the *vita activa*, or active life, with the *vida contemplativa*, or contemplative life. For 10 points each:

[10] Name this German-born American philosopher whose works include *On Revolution* and *The Life of the Mind*.

ANSWER: Hannah **Arendt**

[10] Arendt discussed the "banality of evil" that resulted from a misinterpretation of Kant's categorical imperative in this work that concerns the title figure's trial.

ANSWER: ***Eichmann in Jerusalem***

[10] Arendt was the student and lover of this German philosopher best known for writing *Being and Time*.

ANSWER: Martin **Heidegger** <Alex/Ed. AS>

9. Gandhi never won a Nobel Peace Prize, but four Americans who ordered military invasions did. Name some American winners for 10 points each:

[10] In 1906, this man won the Nobel Peace Prize for his back channel efforts in negotiating a peace to an early 20th century conflict during the Portsmouth Conference.

ANSWER: **Theodore Roosevelt** [or **Teddy Roosevelt**; or **TR**; prompt on **Roosevelt**]

[10] This Nobel winning author wrote about his time in Auschwitz in his book *Night*. Born in Romania, this man moved to America in 1955.

ANSWER: Elie **Wiesel**

[10] This Nobel winner won in 1962 for campaigning against nuclear weapons. He was criticized roundly for supposedly supporting the Soviets, winning the Lenin Peace Prize. He also won the Nobel for Chemistry in 1954, making him the only person with two unshared Nobel prizes.

ANSWER: Linus **Pauling** <Brad/Ed. PT>

10. A woman in this novel is referred to as “The Monkey” because of a lewd act she performs with a banana. For 10 points each:

[10] Name this novel in which the title character discusses his sexual frustration with a psychologist. The title character’s mother is shocked to learn he has been sexually involved with non-Jewish girls.

ANSWER: ***Portnoy’s Complaint***

[10] This is the name of the aforementioned psychologist. The only line this character speaks in the novel is the final line, in which he asks “Now vee may perhaps to begin. Yes?”

ANSWER: Dr. **Spielvogel**

[10] Portnoy’s Complaint is by this author whose recurring character Nathan Zuckerman appears in such novels as *American Pastoral* and *The Human Stain*.

ANSWER: Philip (Milton) **Roth** <Alex/Ed. AS>

11. Name some things about Christian Heresies before the Protestant Reformation for 10 points each:

[10] One heresy relies on the literal translation of the Ten Commandments, which forbids worshipping these “graven images.” In the 8th century, the Eastern Church and Leo III banned the use of these images which often depict Jesus, Saints, and Angels.

ANSWER: **icons**

[10] This movement largely based in the Languedoc region of France was a form of Gnostic revival in Western Europe. Pope Innocent III launched the Albigensian Crusade with support from Philip II, which ended this heretical sect at the beginning of the 13th century.

ANSWER: **Catharism**

[10] This other medieval heresy started by Brother Angelo da Clareno idolized the poverty of Francis of Assisi while denouncing the riches of the Catholic Church. This “Little Brethren” was declared heretical by Boniface VIII in 1296.

ANSWER: **Fraticelli** [or **Spiritual Franciscans**] <Peter/Ed. PT>

12. This abandoned subway station was designed by Rafael Guastavino in the elegant style of Romanesque Revival architecture. For 10 points each:

[10] Name this abandoned New York Subway station that is currently used as the a turning loop of for the 6 [six] trains. It only has one curved platform that can accommodate five-car trains.

ANSWER: **City Hall** Station [or **City Hall** loop]

[10] City Hall station was closed in part due to its proximity to a station named after this structure. Hart Crane’s most famous work is titled after this structure that connects it’s namesake boroughs to Manhattan.

ANSWER: The **Brooklyn Bridge**

[10] The Cortlandt Subway Station is also currently in disuse but is slated to reopen in 2018 as part of the Transportation Hub of this Lower Manhattan complex. This complex’s One tower is the tallest building in New York City.

ANSWER: **World Trade Center** <Leo/Ed. TH>

13. This leader was arrested upon unexpectedly returning to the country he formerly led in 2011 and charged with corruption. For 10 points each:

[10] Name this former president of a Caribbean nation, whose extravagant 1980 wedding was widely criticized. He became president at the age of 19 in 1971 after the death of his father.

ANSWER: **Jean-Claude Duvalier** [accept **Baby Doc Duvalier**]

[10] The father and son Duvaliers were leaders of this Francophone Caribbean country. The Parsley massacre was carried out against citizens of this country by forces of the neighboring Dominican Republic.

ANSWER: **Haiti**

[10] After the outbreak of ASFV in Haiti during Baby Doc's rule, the US pressured Haiti to eradicate all of these animals in the country in the PEPPADEP program, which decimated the livelihood of many peasant farmers.

ANSWER: **pigs** [or **swines**, **hogs**, etc] <Taylor/Ed. PT>

14. In interrupted mating experiments, bacterial cells are periodically blended to disrupt this technique. For 10 points each.

[10] Name this process that was discovered by Joshua Lederberg and Edward Tatum in *E. Coli*. Some chromosomal DNA may be transferred when Hfr cells undergo this process.

ANSWER: bacterial **conjugation** [prompt on **lateral gene transfer**; prompt on **horizontal gene transfer**]

[10] Bacterial conjugation results in the transfer of the F factor, one of these small DNA molecules that are not part of chromosomal DNA. These elements of bacterial genomes replicate via a rolling circle mechanism.

ANSWER: **plasmids**

[10] Plasmids will often carry genes that give resistance to this general class of drugs. Penicillin is an example of this kind of drug.

ANSWER: **antibiotics** [accept **antibacterials**] <Jonathen/Ed. JS>

15. This poet described his time as a chemist under a Fascist regime in a collection of 21 stories titled after chemical elements. For 10 points each:

[10] Name this Italian author of *The Periodic Table* who also wrote *If This is a Man*.

ANSWER: Primo Michele **Levi**

[10] Primo Levi is best known for his memoirs about this event. The American version of Primo Levi's *If This is a Man*, which is based on this event, was published in the U.S. as *Survival in Auschwitz*.

ANSWER: The **Holocaust** [accept The **Shoah**; prompt on **World War II**]

[10] Another poet who wrote about the Shoah was Paul Celan, who wrote predominantly in this language. A poem in this language by a different author asks "Who, if I cried out, would hear me among the Angelic / Orders?"

ANSWER: **German** [or **Deutsch**] <Taylor/Ed. AS>

16. After this dancer married the Hungarian stalker Romola de Pulszky, his employment was terminated by Sergei Diaghilev (die-AGH-hill-ev), who supposedly "gave himself to a wild orgy of dissipation." For 10 points each:

[10] Name this early 20th century male dancer and choreographer of the ballets *Afternoon of a Faun* and *Jeux (JOO)*. Unlike most males, he possessed the ability to dance *en pointe*.

ANSWER: Vaslav **Nijinsky** [Accept Vatslav **Nijinsky**; accept **Waclaw Nizyński**]

[10] Nicholas Roerich provided the costumes for this most famous ballet choreographed by Nijinsky. The choreography in this ballet was described as "ugly earthbound lurching," and features a young maiden dancing herself to death in its finale, the "Sacrificial Dance."

ANSWER: *The Rite of Spring* [Accept *Le Sacre du printemps*; accept *Vesna svyashchennaya*; prompt on **Sacred Spring**]

[10] Both Vaslav Nijinsky and Sergei Diaghilev, the founder of the Ballet Russes (ROO-ses), called this country their home. Even though the Ballet Russes was stationed in Paris, inspiration for its name came from this country.

ANSWER: **Russia** [Accept **Russian** Republic; do not accept or prompt on "Soviet Union"] <Tracy/Ed. TH>

17. This figure wrote such works as *On Human Nature, On Airs, Waters, Places, and On Epidemics*. For 10 points each:

[10] Name this 5th century ancient Greek figure, who may have been one man or a group of men. The medical corpus of this figure features their namesake "oath," and this figure identified epilepsy and other diseases as causal and natural rather than supernatural in origin.

ANSWER: **Hippocrates**

[10] Hippocrates believed that the macrocosmic elements of earth, water, fire, and air corresponded to the microscopic presence of these four substances in the human body, whose imbalance caused disease. They include black bile and blood.

ANSWER: **humors** [accept word forms like **humoralism**]

[10] This 2nd century AD physician was a big fan of Hippocrates, writing about 12,000 pages of commentary and expansion upon "Hippocratic Wisdom." Lots of this physician's writings on human anatomy were based on his vivisection of barbary apes.

ANSWER: Aelius **Galenus** [or Claudius **Galenus**] <Taylor/Ed. PT>

18. This play opens with Jimmy and Cliff reading the Sunday papers while Alison is ironing. For 10 points each:

[10] Name this play in which Jimmy becomes involved with the actress Helena after alienating his wife with his acerbic monologues. Years later, its author revisited the same character with his play *Dejavu*.

ANSWER: **Look Back in Anger**

[10] The author of *Look Back in Anger*, John Osborne, belonged to a literary movement named for being *this* kind of young men. In a Reginald Rose play partly named for this emotion, a single juror is able to convince eleven others of a young man's innocence.

ANSWER: **angry** [accept **Angry Young Men** or **12 Angry Men**]

[10] The Angry Young Men were a movement from this country, whose much earlier Restoration era dramatists include William Congreve and John Dryden.

ANSWER: **England** [accept The **United Kingdom**; accept Great **Britain**] <Taylor/Ed. AS>

19. Like an umbrella in a strong wind, this reaction mechanism undergoes a stereochemical inversion. For 10 points each:

[10] Name this reaction mechanism in which a trigonal bipyramidal intermediate is formed during a backside attack. Rate law analysis for this mechanism shows that reaction rate depends on the concentration of both reactants.

ANSWER: **SN2** [accept **bimolecular nucleophilic substitution**; accept **nucleophilic substitution bimolecular**; accept **nucleophilic substitution 2nd order**; prompt on **substitution**; prompt on **nucleophilic substitution**]

[10] In an SN2 reaction, one of these species is responsible for the backside attack on an alkyl halide. These chemical species [emphasize] *donate* electrons.

ANSWER: **nucleophile** [accept **Lewis base**]

[10] This molecule which can act as a nucleophile is used to make nitric acid in the Ostwald process. The Haber-Bosch process combines nitrogen gas and hydrogen gas to form this molecule with formula NH₃.

ANSWER: **ammonia** <Jonathen/Ed. JS>

20. This man's Palliser novels include the *Eustace Diamonds*, in which Miss Carbuncle desperately attempts to marry off Lucinda Roanoke. For 10 points each:

[10] Name this Victorian novelist of *Barchester Towers* and *Phineas Redux*.

ANSWER: Anthony **Trollope**

[10] "The Diamond Necklace" is a short story by this French author of "Ball of Fat" and *Bel Ami*.

ANSWER: Guy de **Maupassant**

[10] "The Crown Diamond" is an alternate version of the short story "The Adventure of the Mazarin Stone," which are both works following this title sleuth who lives at 221B Baker Street.

ANSWER: Sherlock **Holmes** <Peter/Ed. AS>