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**TOSSUPS:**

**1. After the growth of this industry in New Zealand's Otago region led to increased immigration, P.M. John Hall implemented a harsh poll tax on Chinese workers in this industry, which also was the main focus of a different country's Lambing Flat riots. A large object known as "Welcome Stranger" was discovered by workers in this industry, whose 1850s growth in Victoria led Melbourne to be dubbed "Marvellous." In (\*) Ballarat, workers in this industry fought British troops during the Eureka Rebellion. Pyrite was nicknamed for its ability to trick workers in this industry, which largely expanded to the Western U.S. after an 1848 discovery at Sutter's Mill. For 10 points, Alaska and California have been historical centers of which industry centered on the extraction of a certain precious metal?**

ANSWER: **gold mining** [accept **gold** industry; prompt on **mining**]  
<TH, Other History>

**2. The 2017 documentary *Meteors* focuses on individuals of this ethnicity. The former "Red Prison" in Sulaymaniyah is now a museum that documents persecution of members of this ethnicity. Dialects of the language of this ethnicity include Sorani and Palewani. This is the majority ethnic group that populates the settlements around Lake Van and the plateau-top settlement of Amedi. The flag of these people features a golden (\*) sun symbol known as the Roj. The cities of Diyarbakir and Erbil have majority populations of this ethnic group. This is the largest ethnic group without a nation, with up to 40 million individuals living throughout the Middle East. For 10 points, name this non-Arab Middle Eastern ethnic group concentrated in Iraq, Iran and Turkey.**

ANSWER: **Kurds** [accept **Kurdish** people]  
<TH, Geography>

**3. When it was first displayed, it was rumored that the woman in this work was inspired by its artist's lover Camille Claudel, though this work was actually begun before the two met. A bronze version of this work was submitted to the 1893 World Columbian Exhibition in Chicago, where it was displayed in a private gallery rather than publicly, as it was deemed to racy for much of the public. This sculpture was originally intended to top its artist's (\*) *The Gates of Hell*, where it was supposed to depict Paolo and Francesca. The male figure in this sculpture rests his large right hand on a woman's hip, who in turn wraps her left arm around the man's neck. For 10 points, name this sculpture by Auguste Rodin which shows a pair of lovers sharing an amorous exchange.**

ANSWER: *The **Kiss*** [or *Le **Baiser***]  
<TH, Sculpture>

**4. A team of sponge divers discovered a 3300-year-old shipwreck in this body of water containing a well-preserved collection of oxhide tin and copper ingot; that site is the Uluburun Shipwreck. An island in this body of water contains the megalithic temples of Tarxien and Skorba, believed to be the world's oldest freestanding structures until the discovery of Gobekli Tepe. The (\*) Antikythera mechanism was discovered in a single piece in this body of water. Arthur Evans unearthed an ancient city on an island in this body of water, during which time he first discovered the Linear A script. The Knossos complex is located near, for 10 points, what large body of water where ancient civilizations existed on the islands of Malta and Crete.**

ANSWER: **Mediterranean** Sea [accept **Aegean** Sea]  
<TH, Anthropology>

**5. Ron Reynolds, a representative in this state's house, proposed a bill to raise its minimum wage to 15 dollars per hour after earlier winning re-election from jail. Republican mayor Dale Ross was instrumental in making this state's city of Georgetown the largest in the US powered by 100% renewable energy. Former Secretary of Housing and Urban Development and former mayor of one city in this state, (\*) Julian Castro, is running for the Democratic presidential nomination in 2020. In January 2019, Donald Trump visited this state's border with Mexico in McAllen to push for his wall. For 10 points, name this state where former Democratic congressman Beto O'Rourke narrowly lost a senate race against Ted Cruz.**

ANSWER: **Texas**

<LL, Current Events>

**6. An Ivor Cutler poem describes one of these things "Like a conjunction / Like 'and', only longer" before declaring "for God's sake don't walk on it!" The reminiscences of prisoner of war Dorrigo Evans make up a novel by Richard Flanagan titled for one of these things. A different novel titled for one of these things ends with boy holding vigil over a body before being approached by a shotgun-wielding man who explains that he is one of "the good guys." That novel titled for one of these structures follows an (\*) unnamed father and his son who travel a wasteland with a flare gun. One of these structures title a 2009 post-apocalyptic Cormac McCarthy novel. For 10 points, name this type of structure, two of which "diverge in a yellow wood" in a Robert Frost poem about one "not taken."**

ANSWER: **road** [accept *The Road*; accept *Narrow Road to the Deep North*; accept "The **Road** Not Taken"]

<TH, Mixed Lit>

**7. A branch cut is necessary when doing the contour integral of the logarithm function over this set. Non-essential singularities of functions over this set are called poles. The one point compactification of this set, typically viewed as the union of this set with a point at infinity, gives the Riemann sphere. The Cauchy-Goursat ("coh-shee gore-sah") theorem is used to compute line integrals of holomorphic functions in a field of (\*) analysis named for these numbers. These numbers can be transformed from Cartesian coordinates to polar coordinates using Euler's ("oy-lurrs") formula. Blackboard **C** denotes the set of all of these numbers. For 10 points, name these numbers of the form  $a + bi$ , where  $a$  and  $b$  are real and  $i$  is the square root of negative one.**

ANSWER: **complex** numbers [accept **complex** plane; accept **Riemann spheres** before mentioned, prompt after; prompt on **Riemann surfaces**; accept **C** until mentioned]

<LL, Other Science Math>

**8. The Middle Eastern dish galayet bandora combines this incredigent with hot peppers, onions and olive oil. Meat wrapped in cabbage leaves are simmered in a broth of this ingredient in the Polish dish goloubki. This ingredient is mixed with bulgur, parsley, onion, mint and herbs in the Lebanese salad tabouli. This ingredient is the base of the Spanish soup (\*) Salmorejo ("sal-moe-RAY-hoe"), usually served cold. This ingredient is eaten with mozzarella cheese and basil on caprese sandwiches. Commonly used types of these ingredients include the roma and beefsteak varieties. Unripe "green" varieties of these are eaten fried in a Southern American dish. For 10 points, name this fruit that is used as the base of marinara sauce.**

ANSWER: **tomatoes** [accept more specific answers like beefsteak, roma, cherry, or heirloom **tomatoes**]

<TH, Other Academic>

**9. The critical density given by the Friedmann equation is equal to three H-squared over eight pi times this value, and the same factor of eight pi times this value multiplies the stress-energy tensor in another set of equations. The Schwarzschild ("shvartz-sheelt") metric scales the radial coordinate by a factor equal to twice this constant times mass over (\*) c-squared. In an experiment to measure the mean density of the Earth, this constant was found to have a value of 6.74 times ten to the negative eleventh in SI units. Due to the weakness of its corresponding force, the measured value of this constant has not changed much from the value of it determined by Cavendish with a torsion balance. For 10 points, name this constant of proportionality found in Newton's law of its namesake force.**

ANSWER: universal **gravitational** constant [or **big g**; prompt on **g**]

<LL, Physics>

10. Season 2 of a show set in this state culminates with the reveal that Jax (“jacks”) Taylor slept with Kristen Doute (“doh-tee”), the significant other of his best friend Tom Sandoval. That reality show set in this state focuses on the employees of Lisa Vanderpump’s restaurant, and is a spin-off of a *Real Housewives* show. In a TV show set in this state, one character believes he is in a desert while hallucinating on shrooms, while in reality he is in a gas station bathroom. TJ (\*) Miller’s character Erlich Bachman was not in the most recent season of a show set in this state. In that show, Gavin Belson has a rivalry with Richard Hendrix, who creates the startup company Pied Piper in this state. For 10 points, name this state which is the setting of HBO’s *Silicon Valley*.

ANSWER: California [accept CA]

<CW, Pop Culture TV>

11. This thinker described the futility of attempting to examine one’s own consciousness as “trying to turn up the gas quickly enough to see how the darkness looks.” An essay by this author written on the outbreak of World War I suggests drafting young people into national service rather than martial service to cultivate loyalty and social solidarity. This author of “The (\*) Moral Equivalence of War” differentiated between the empirical self “me” and the pure ego “I” in a work that coined the term stream of consciousness. This thinker is seen as a bridge between C.S. Pearce and John Dewey in his intellectual school. For 10 points, name this American philosopher who wrote the texts *The Principles of Psychology* and *Pragmatism*.

ANSWER: William James

<TH, Philosophy>

12. A leader known popularly by the initials E.V.R. led a protest movement against the prominence of this text, which he claims insultingly depicts ethnic minorities as bears and monkeys. Emic tradition credits the author of this text with the 32 syllable poetic meter called the *shloka*. English translations of this work include a 2016 version by Sally and Robert Goldman and an abridged version by (\*) R.K. Narayan. This work’s main female character and her son Raja relate the story of this text to the reformed bandit Valmiki. A woman who had been held on Lanka undergoes a trial by fire to test her chastity after being rescued with the help of Hanuman in this work. The demon Ravana kidnaps Sita in, for 10 points, what Sanskrit epic about the title prince of Ayodhya?

ANSWER: Ramayana [accept Rāmāyaṇam]

<TH, Religion>

13. Ronald Richter spent years lying to a leader of this last name by insisting that he had produced a successful nuclear fusion reactor as part of the Huemul Project. A minister known as “The Warlock” influenced a president of this surname during a period dubbed the “National Reorganization Process.” They didn’t lead Spain or Colombia, but during the presidency of that leader of this surname, Jose Lopez Rega utilized the Triple A to combat left-wing insurgents such as the (\*) Montoneros. Jorge Videla further facilitated a period of terror known as the Dirty War after overthrowing a leader with this surname, whose husband of the same name was previously supported by the *descamisados*. For 10 points, which last name was held by Argentinian presidents Isabel and Juan?

ANSWER: Peron [accept Juan Peron or Isabel Martinez de Peron]

<TH, World History>

14. In his 1971 paper, Robert Trivers layed out length of lifetime, dispersal rate, and dominance hierarchy as three of the parameters that affect one form of this behavior. Hamilton proposed that the haplo-diploid sex-determination system of Hymen-optera stimulated the development of eusociality and this behavior. Natural selection favors this behavior when the benefit to the recipient times the (\*) relatedness between the participants is greater than the cost to the benefactor. Inclusive fitness explains the rationale for this behavior, exemplified by one meerkat standing guard while the rest of its clan feeds. For 10 points, identify this selfless biological behavior in which one organism helps another to its own detriment.

ANSWER: altruism [prompt on eusociality or kin selection with “What individual organism behavior?”]

<JS, Biology>

**15. Bishop Gorazd was executed by members of this group after he harbored several men in the Cathedral of Cyril and Methodius. The towns of Lidice and Lezaky were destroyed as a result of an attack on a member of this group. Jozef Gabcik and Jan Kubis killed a member of this group by throwing a tank grenade at his (\*) Mercedes Convertible, leading to the success of Operation Anthropoid. Several members of this group were killed when a briefcase bomb was detonated in the conference room of Wolf's Den, though that assassination attempt, known as the 20 July Plot, failed to kill its main target, thus foiling Operation Valkyrie. For 10 points, name this party that included the assassinated paramilitary leader Reinhard Heydrich.**

ANSWER: Nazi Party [accept Nazi officers; accept the Third Reich; accept Gestapo or Wehrmacht; accept National Socialist German Workers' Party or Nationalsozialistische Deutsch Arbeiterpartei; accept Reich Main Security Office; accept any answer indicating specific groups within the Nazi German military]

<PH, European History>

**16. A B-flat major piano sonata by this composer features a toccata third movement with a seven-eight rhythm, subdivided 2 plus 3 plus 2. That piano sonata by this composer has a second movement based on a theme by Schumann, and was written during the same time this composer was commissioned to write a generic cantata for his country's leader. This composer's 6th, 7th and 8th piano sonatas are grouped together as his (\*) "War Sonatas" due to their completion during World War II. This composer's D major first symphony was meant to be evocative of Haydn, and thus is dubbed the Classical Symphony. For 10 points, name this Soviet composer whose most popular pieces include "The Dance Of the Knights" and *Peter and the Wolf*.**

ANSWER: Sergei Prokofiev

<TH, Classical Music>

**17. In a novel framed as a Socratic dialogue, a telepathic gorilla of this name instructs the narrator about the folly of mankind after the narrator answers a newspaper ad seeking students. Daniel Quinn wrote a novel titled for this name, which is the first name of an author who wrote about PaPa LaBas's attempts to prevent the Wallflower Order from eradicating the jazz-inspiring Jes Grew virus in his novel (\*) *Mumbo Jumbo*. A character with this first name spends the night in New Bedford with an extensively tattooed polynesian cannibal. A character of this name is picked up by the *Rachel* while floating on a coffin following the destruction of the *Pequod*. For 10 points, give this name which identifies a character who asks the reader to "call me" this name in the first line of *Moby Dick*.**

ANSWER: Ishmael [accept Ishmael Reed; accept Call me Ishmael]

<TH, Long Fiction>

**18. As a baby, this figure would only breastfeed on Wednesday and Friday to avoid taxing his mother and stood upright and praised God at his first bath. In one legend, this figure resurrects three schoolboys who were chopped up and stored in a brine barrel for seven years by a cruel butcher; that butcher became this figure's companion Father Whipper. This real-life Bishop of (\*) Myra legendarily saved a father from having to prostitute his daughters by secretly throwing bags of gold into a house. Companions of this figure include Farmhand Rupert who used a birch rod to whip children, and a monstrous figure bedecked in rusty chains and bells, the Krampus. For 10 points, name this Christian Saint associated with gift giving on a December holiday.**

ANSWER: Saint Nicolas [accept Santa Claus; accept Kris Kringle; accept Father Christmas]

<TH, Mythology>

**19. They aren't African-Americans, but many of these people were killed in an incident that occurred on "Negro Alley," including one who had his finger removed to steal his diamond ring. The Cato the Elder-inspired phrase "Whatever happens, [these people] must go," ended every speech by noted scumbag Denis Kearney, who united his Workingmen's Party via a hatred of these people. In 1885, members of this ethnic group were slain by Wyoming coal miners in (\*) Rock Springs. The Magnuson Act curbed immigration restrictions placed upon members of this ethnic group by Chester A. Arthur in 1882. Targeted by a namesake "Exclusion Act," for 10 points, name this ethnic group, whose "towns" in NYC and San Francisco house many immigrants from Guangzhou.**

ANSWER: Chinese-Americans [accept Chinese immigrants to the United States]

<BK, American History>

20. A poem whose first line mentions one of these objects asks the addressee to “Teach me to hear mermaids singing / Or to keep off envy’s stinging.” That poem whose first line mentions one of these objects compares impossible tasks like finding “who cleft the devil’s foot” and getting “with child a mandrake root” to finding a faithful woman. A poem titled for one of these objects describes “moving waters at their (\*) priestlike task / Of pure ablution.” That poem describes one of these objects “with eternal lids apart” like a “sleepless Eremite” after proclaiming “would I were steadfast as thou art.” John Donne wrote a poem suggesting catching a falling one of these objects. For 10 points, name these celestial objects that are described as “bright” in a John Keats sonnet.

ANSWER: star [accept “Bright Star”; accept a falling star; accept “Go and catch a falling star”]

<TH, Poetry>

21. A definition distinguishing two types of this thing claims one type is a useful activity “of a particular kind” while another simply abstractly adds value. Arthur Lewis’s Dual Sector model explains how capitalism expands by making use of an unlimited supply of this thing from a “subsistence sector.” According to *Das Kapital*, a commodity is created by (\*) mixing this thing with an object from the natural world. In Marxist economics, the amount of “socially necessary time” involved in this thing defines the value of a good or service. This factor’s “supply” is defined as the total number of people who wish to work at a given real wage. For 10 points, name this factor of production along with land and capital, the work done by humans.

ANSWER: labor [accept labor supply; prompt on work or employment]

<TH, Economics>

22. In one work, some of these people assault a man, who then grabs a small child to serve as a hostage so that he may escape; that “child” turns out to be a wineskin dressed in a kid’s clothing. In a different work, a group of these people manage to issue insults so terrifying that the guards sent to arrest them run away in terror. Shortly before a group of these people (\*) douse an opposing force’s flames with water, one of these people leads the acceptance of a sacred oath utilizing a bowl of wine. Euripides makes Mnesilochus (“min-ess-ILL-oh-cuss”) infiltrate a festival of these people in *Thesmophoriazusae* (“thez-mo-for-uh-ZOO-say”). For 10 points, what type of people withhold sex from their husbands in Aristophanes’s *Lysistrata*?

ANSWER: women [accept wives; accept mothers; accept synonyms such as females or girls]

<TM, Drama>

23. During this century, a composer used the *opera-ballet* form for his *Les Indes galantes* (“lez ahn-day GAH-lahnt”) and caused controversy at the premiere of his *Hippolyte et Aricie* (“EE-poe-LEET eht air-AY-see”) by breaking with tradition. The “War of the Buffoons” took place during this century, during which the merits of French and Italian opera were debated. A opera premiered in this century features the oft-excerpted “Dance of the Blessed Spirits;” that opera is (\*) *Orfeo ed Euridice* by Christoph Gluck. The *opera buffa* and *opera seria* styles were first used in this century, during which Giovanni Pergolesi, Jean-Philippe Rameau, and Frederic Handel premiered all of their operas. For 10 points, name this century which saw the end of the Baroque and the beginning of the Classical era.

ANSWER: 18th Century [accept 1700s]

<JH, Opera>

24. One method for this process uses a C·S·A to shuttle the product between Cat·1 and Cat·2, producing a product with both “hard” and “soft” properties. If the catalyst in one method for this process is too active, an intramolecular reaction called backbiting will alter the desired product. When used in this process, metallo-cene catalysts produce syndio-tactic products. Flory pioneered the use of transfer reactions in this process that also has (\*) initiation and propagation steps. The outputs of this process are characterized by their molecular weight and polydispersity. Cossee identified the mechanism of the Phillipps catalyst, which produces H·D·P·E from ethylene via this process. For 10 points, what process forms chains out of monomers?

ANSWER: polymerization [accept chain shuttling polymerization; accept chain-growth polymerization; accept chain polymerization]

<JS, Chemistry>

## BONUSES:

1. This *meisho-e* work may have inspired both Debussy's *Le Mer* and Rainer Maria Rilke's poem "The Mountain." For 10 points each:

[10] Name this work which shows Mt. Fuji in its background while the title phenomenon threatens three barges filled with blue clad sailors.

ANSWER: *The Great Wave Off Kanagawa* [accept similar translations like *Under a wave off Kanagawa*; accept *Kanagawa-nami ura*]

[10] Katsushika Hokusai, the creator of the *Great Wave* along with 35 other views of Mt. Fuji, was an artist from this country.

ANSWER: **Japan** [accept **Nihon** or **Nippon**]

[10] Another nautical-themed Hokusai work, *The Dream of the Fisherman's Wife*, shows a woman having an encounter with two of these creatures.

ANSWER: **octopuses** [accept **octopi**]

<TH, Painting>

2. While King David is traditionally thought to have written the Psalms, only half are attributed to him. For 10 points each:

[10] This man is the attributed author of Psalm 90. The Pentateuch, which has historically also been ascribed to him, details how he led the Exodus from Egypt by parting the Red Sea.

ANSWER: **Moses** [accept **Moshe**]

[10] This man wrote Psalms 72 and 127. He also wrote Ecclesiastes and was succeeded by his sons Rehoboam and Jeroboam.

ANSWER: King **Solomon** [accept **Jedidiah**; accept **Shlomoh**]

[10] This Psalm was written anonymously, but often is attributed to Ezra. With 176 verses, this Psalm is the longest in the Bible, and is broken into 22 sections named for the letters of the Hebrew alphabet.

ANSWER: Psalm **119** [accept Tehillim **119**]

<BK, Religion>

3. One building in this city was derided as having been inspired by a pornographic image of a woman on all fours, but after that theory was debunked, most people call it by its main nickname, the "big pants." For 10 points each:

[10] Name this city home to the loop-shaped CMG Headquarters building. Because of its oblique, rounded appearance, a sports arena in this city has been nicknamed "the Bird's Nest."

ANSWER: **Beijing**, China [accept **Peking** from people who are stuck in the past]

[10] The CMG Headquarters building was designed by Rem Koolhaas, an architect who was born in this country. Architect Piet Blom aimed to maximize street space through his diagonally-oriented Cube Houses, which are found in this country's city of Rotterdam.

ANSWER: the **Netherlands** [accept **Nederland**]

[10] Koolhaas has also designed buildings for this fashion company, such as a movable "Transformer" in the shape of a tetrahedron with differently shaped faces and a nine-story white tower with a triangular notch missing from its side in Milan.

ANSWER: **Prada** S.p.A [accept **Prada Transformer**]

<TM, Architecture>

4. Popular artists in the first wave of this genre include DJ Earworm and The Hood Internet, the latter of whom often combines hip-hop and indie samples. For 10 points each:

[10] Give the name for an electronic sub genre that combines samples from multiple pop songs to form a new work. Danger Mouse brought this subgenre to mainstream attention with 2004's *The Grey Album*.

ANSWER: **mashup** music [accept **mesh**, **blend**, **bastard** rock or **bastard** pop]

[10] This producer has released full length mashup albums like *Night Ripper* and *All Day*, the latter of which soundtracked a 70 minute music video in which three characters dance through the streets of New York City.

ANSWER: **Girl Talk** [accept Gregg **Gillis**]

ANSWER: **Jay-Z** [accept [10] On the last track of *All Day*, this rapper's track "Dirt Off Your Shoulder" is mashed up with Modern English's "I Melt with You." *The Grey Album* combines The Beatles' *White Album* with this rapper's *Black Album*, which contains his track "99 Problems."

pt Sean **Carter**]

<TH, Pop Culture Music>

5. Answer the following about classical music important to Peter Els, the protagonist of the novel *Orfeo* by Richard Powers. For 10 points each:

[10] Throughout the novel, Peter composes a Borges song cycle and a piece of this type based on the Münster Rebellion. Famous works of this type include *Carmen* and *Tristan and Isolde*.

ANSWER: **operas**

[10] Peter listens to this composer's *Kin-der-to-ten-lied-er* with his teenage girlfriend Clara and describes the opening where "oboe and horn trace out their parallel privacies." This Austrian also composed the *lieder* collection *Des Knaben Wunderhorn*.

ANSWER: Gustav **Mahler**

[10] While on the run from the FBI for bioterrorism charges, Peter teaches a music appreciation class about this piece for clarinet, violin, cello, and piano. This piece, which features movements titled "Liturgy of Crystal" and "Abyss of Birds," was composed and performed in the Stalag VIII-A POW camp.

ANSWER: **Quartet for the End of Time** [accept **Quatuor pour la fin du temps**] (by Olivier Messiaen)

<JS, Other Academic>

6. This character's lovers include men named Dolokhov and Boris as well as her own brother, Anatole. For 10 points each:

[10] Name this promiscuous character who seduces and marries Pierre only for the prospect of a rich and comfortable life. She commits suicide by drug overdose after not being able to annul her marriage with Pierre.

ANSWER: **Helene Kuragina** [accept either underlined part; prompt on Countess **Bezukhov**]

[10] This character from a different novel has an affair with Vronsky due to her unhappy marriage to Alexei. After Vronsky falls off his horse during a race, she publically expresses her distress over his accident.

ANSWER: **Anna** Karenina [prompt on **Karenin(a)**; prompt on **Oblonsky**]

[10] Helene Kuragina appears in *War and Peace*, a novel by this Russian author who depicted the title character's suicide by train in *Anna Karenina*.

ANSWER: Leo **Tolstoy**

<LL, Long Fiction>

7. John Atkinson developed expectancy-value theory to explain this concept in terms of the expectation of success in relation to the expectation of failure and the value weight of both. For 10 points each:

[10] Name this psychological tendency to strive for goals and success. David McClelland devised Need Theory to explain this phenomenon.

ANSWER: achievement **motivation**

[10] These two adjectives describe types of achievement motivation. One type describes engaging in activities for secondary rewards, while the other describes the innate satisfaction of the activities themselves. Name both.

ANSWER: **extrinsic** and **intrinsic** motivation [accept **external** and **internal** motivation]

[10] General motivations for all human behaviors are explained by Abraham Maslow's Hierarchy of Needs. At the top of the hierarchy is this concept, which refers to a person reaching their full potential. According to Maslow, few people reach this stage.

ANSWER: **self-actualization** [or **self-actualizing**]

<TH, Psychology>

8. John Zephaniah Holwell provided a primary account regarding an event that took place in this city's Fort William. For 10 points each:

[10] Name this city, where Siraj ud-Daulah, the Nawab of Bengal, ordered 64 prisoners to be locked in an incredibly small jail cell overnight, resulting in 2/3rds of the men perishing in positively suffocating conditions.

ANSWER: **Kolkata** [accept **Calcutta**]

[10] The men imprisoned in the Black Hole of Kolkata were employed by this company at the time of their incarceration. This company, which initially formed to trade with the Mughals, also faced the 1857 Sepoy Mutiny that directly led to India's being purloined, and renamed as the British Raj.

ANSWER: British **East India Company** [accept Honourable **East India Company**; accept **John Company**; accept **Company Bahadur**; accept **EIC**; accept **HEIC**; prompt on "The Company"]

[10] Supposedly, a nap under a shady tree was all it took to convince this British officer to attack the 50,000 men of Siraj ud-Daulah with his vastly outnumbered 3,000 at the Battle of Plassey, which he managed to win handily.

ANSWER: Robert **Clive**, 1st Baron Clive [accept **Clive** of India; accept The Lord **Clive**]

<TH, Other History>

9. Name some American poets who wrote about outer space, for 10 points each:

[10] This poet described looking "up in perfect silence at the stars" in his poem "When I Hear the Learn'd Astronomer" which appeared in his collection *Leaves of Grass*.

ANSWER: Walt **Whitman**

[10] This poet described "a solitude of space / A solitude of sea" in a brief poem concluding "A soul admitted to itself / Finite infinity." This poet also wrote the poem "The Soul selects her own society."

ANSWER: Emily **Dickinson**

[10] This contemporary poet wrote about her engineer father's work on the Hubble Space Telescope in the poem "Oh My God, It's Full of Stars" from her Pulitzer-winning collection *Life on Mars*. This current Poet Laureate of the US shares her last name with a poet who wrote "Not Waving, but Drowning."

ANSWER: Tracy K. **Smith** [or Stevie **Smith**]

<TH, Poetry>



10. Answer the following about performing experiments in chem lab. For 10 points each:

[10] These enclosures should be used when working with toxic or volatile compounds. These devices usually vent separately from the building's HVAC.

ANSWER: **fume hoods** [accept **fume cupboards** or **fume closets**; do not prompt on partial answer]

[10] Students should bring these measuring devices to eye level instead of crouching to measure the position of the bottom of the meniscus. Placing a card with a dark stripe behind these narrow measuring devices can result in more accurate volume measurements.

ANSWER: **graduated cylinders** [accept **measuring cylinders**; prompt on **cylinders**]

[10] Small volumes of liquid are transferred with these tools. Simple, plastic examples of these tools are used by placing them in solution, squeezing the attached bulb, and letting go.

ANSWER: **pipettes** [accept anything as long as they say **pipette**, e.g. microp**ipettes**, Pasteur **pipettes**, transfer **pipettes**, and so on]

<JS, Chemistry>

11. Nuclear game theorist Thomas Schelling popularized the term for a situation where fear spirals lead to preemptive strikes, a situation known as this thinker's "trap." For 10 points each:

[10] Name this thinker best known for his political thought, which in essence states that the state of nature leads to a war of all against all, requiring the absolute authority of a sovereign to produce order. These beliefs are outline in *Leviathan*.

ANSWER: Thomas **Hobbes** [accept **Hobbesian** Traps]

[10] Outside of his political thought, Hobbes defended this position, which denies universals. According to this stance, the word "tree" refers to each individual tree, but not all trees as a collective idea.

ANSWER: **nominalism** [accept he is a **nominalist**]

[10] Hobbes also held this unpopular position for his time, which states that human beings and their minds are entirely corporeal. This position opposes mind body dualism and is closely related to physicalism.

ANSWER: **materialism**

<TH, Philosophy>

12. Answer some questions about the troublingly ambiguous themes of rape in the plays of Shakespeare, for 10 points each:

[10] In this bloody Shakespeare tragedy, the title character's daughter Lavinia is raped and mutilated by the sons of the Goth Queen Tamora. The title general takes revenge by baking Tamora's sons into a pie, though he still cruelly kills Lavinia as well.

ANSWER: ***Titus Andronicus***

[10] The scene where this character "gives" his girlfriend Silvia to Proteus, the man who just tried to rape her, prompted critic Dover Wilson to quip "One's impulse, upon this declaration, is to remark that there are, by this time, no gentlemen in Verona."

ANSWER: **Valentine**

[10] In this play, Prospero's suggestion that Caliban raped Miranda is meant to turn the audience against Caliban.

ANSWER: ***The Tempest***

<TH, Drama>

13. The Kuznetsk Basin in the southwest of this region is a major coal mining hub. For 10 points each:

[10] Name this frigid region of Russia located east of the Ural Mountains. Lake Baikal is located in this region, which stretches from the Arctic Ocean to the national borders of Mongolia and China.

ANSWER: **Siberia**

[10] This city is the largest in Siberia and the third largest in Russia overall after Moscow and St. Petersburg. This major industrial center is located on the banks of the Ob River.

ANSWER: **Novosibirsk**

[10] The Trans-Siberian Railroad, which passes through Novosibirsk, has its eastern terminus at this city on Russia's Pacific Coast.

ANSWER: **Vladivostok**

<TH, Geography>

14. During a battle in this colonial region, Genevieve de Galard became known as “[that battle’s] Angel” for being the only female nurse present at the conflict zone. For 10 points each:

[10] Named in part for its colonizers, give this region, whose namesake “First” war in 1946 included the battle of Điện Biên Phủ. This region contained the Vietnamese areas of Tonkin, Annam, and Cochinchina, as well as most of modern-day Cambodia and Laos.

ANSWER: **French Indochina** [accept **Indochinese Union**; accept **Indochinese Federation**; prompt on **Indochina** by itself; prompt on **Vietnam**, **Cambodia**, **Laos**, or any other of the aforementioned constituents of **French Indochina**]

[10] The First Indochina War often saw the French transporting BMCs, which consisted of groups of these people, to the battlegrounds. One massive BMC, known as “the park of the buffaloes,” contained thousands of these people from the Ouled Nail tribe of Algeria.

ANSWER: **prostitutes** [accept **comfort women**; accept other synonyms; prompt on **women** or **females** in general]

[10] During the First Indochina War, this communist leader led the Việt Minh in resistance against the French. Following the Vietnam War, Saigon was renamed for this leader.

ANSWER: **Hồ Chí Minh** [accept **Nguyễn Sinh Cung**; accept **Nguyễn Tất Thành**; accept **Nguyễn Ái Quốc**; accept **Bác Hồ**; accept **Bác**]

<TH, World History>

15. The highest volume of formation of these rocks takes place at mid-ocean ridges. For 10 points each:

[10] Name these rocks formed by the solidification of magma. These rocks can be classified by their texture as intrusive, extrusive, or pyroclastic.

ANSWER: **igneous** rocks [accept **plutonic** rocks; accept **volcanic** rocks; accept **magmatic** rocks]

[10] Two-stage cooling of magma, first at a slow rate and then more rapidly, creates igneous rocks with this type of texture. The grain size of rocks with this texture is distinctly bimodal with one size much larger than the other.

ANSWER: **porphyritic** (“pore-fur-it-ick”)[accept **porphyry**]

[10] This mafic rock is often porphyritic. Magma from mid-ocean ridges forms this extrusive rock that is the major component of oceanic crust.

ANSWER: **basalt** [accept mid-ocean ridge **basalt** or **MORB**]

<JS, Other Science Earth Science>

16. In 2017 Kweichow Moutai (“QUAY-chow MAO-tai”), a company that produces this liquor, surpassed the British firm Diageo to become the world’s most valuable alcoholic drinks company. For 10 points each:

[10] Name this sorghum-based hard liquor with alcohol content usually well over 50 percent. It is the most popular spirit in the world mostly due to its enormous popularity in China.

ANSWER: **baijiu** (“buy-JOE”) [accept **shaojiu**]

[10] Baijiu remains relatively obscure in the west, though Moutai has recently begun marketing it in this English speaking country, currently led by Labour Party Prime Minister Jacinda Ardern.

ANSWER: **New Zealand**

[10] The second most popular liquor in the world after baijiu is this formerly-obscure Russian potato-based drink, produced by companies like Smirnoff and Grey Goose.

ANSWER: **vodka**

<TH, Modern World>

17. This goddess's father Anguta hacked off her fingers as she clutched the edge of a boat, resulting in the creation of seals, walruses and whales. For 10 points each:

[10] Name this Inuit goddess, sometimes referred to as the "old woman who lived in the sea." In a different story, this goddess is tricked into marrying a bird-man who takes her back to his lackluster village.

ANSWER: **Sedna**

[10] In one story, an irate Sedna refuses to release her sea creatures to the Inuit hunters until being visited by one of these people in a mystic trance. This is the pan-cultural term for individuals sensitive to the spirits of nature or ancestors.

ANSWER: **shaman** [accept **angakok**; prompt on **medicine man**]

[10] The culture hero of the Inuits is one of these dark birds that could transform into a human. One of these birds is a trickster figure in the myths of several of the tribes of the Pacific Northwest.

ANSWER: **raven** [prompt on **blackbird**]

<JH, Mythology>

18. Answer some question about the Soviet humor novelist duo Ilf and Petrov, for 10 points each:

[10] Ilf and Petrov's best known novel is named for twelve of these objects, from which the conman Ostap Bender tries to recover some jewels. The fourth entry in the *Chronicles of Narnia* series is named for a silver one of these objects.

ANSWER: **chairs** [accept *The Twelve Chairs*; accept *The Silver Chair*]

[10] Ilf and Petrov set their novel *The Little Golden Calf* in a fictionalized version of this city. Isaac Babel wrote a collection of tales named for this city, which follow the Jewish gang leader Benya Krik.

ANSWER: **Odessa** [accept *The Odessa Tales*]

[10] In one of the two alternate ending to *The Little Golden Calf*, Bender announces that he has failed to become the Count of Monte Cristo, referencing a creation of this French author who also wrote *The Three Musketeers*.

ANSWER: Alexandre **Dumas**, pere

<TH, Other Lit>

19. This period may be tolled if the aggrieved party is a minor or if they recently filed for bankruptcy. For 10 points each:

[10] Name these periods of time in civil or criminal law systems. If this period of time passes, a court no longer has jurisdiction and charges may not be filed against a defendant.

ANSWER: **statute of limitations**

[10] The statute of limitations may be extended for a variety of reasons, unlike this kind of statute which cannot be extended. These legal periods are usually applied to harmful products or construction defects.

ANSWER: statute(s) of **repose**

[10] In most U.S. jurisdictions, there is no statute of limitations for this crime, which is more serious than manslaughter. This type of homicide comes in first degree and felony types.

ANSWER: **murder**

<TH, Law>

20. In 1170, this religious leader was murdered by four knights after refusing to travel to Winchester. For 10 points each:

[10] Name this Archbishop of Canterbury, whose murder was ordered by Henry II.

ANSWER: Thomas **Becket** [accept Thomas a **Becket**; accept Saint **Thomas of Canterbury**; accept **Thomas of London**]

[10] These documents, which curbed papal authority in England, were signed in 1164 by most of the English clergy except Becket, who eventually fled to France to avoid prosecution by Henry as a result.

ANSWER: the **Constitutions of Clarendon**

[10] Two years after Becket's murder, Henry Plantagenet was absolved of any responsibility by the third pope of this name. The sixth pope of this name, a Borgia, confirmed Spain's rights to claim land in the New World following Columbus's expeditions.

ANSWER: **Alexander** [accept **Alexander** III or VI]

<DG, European History>

21. Tryptophan is hydroxylated and then decarboxylated to synthesize this neurotransmitter. For 10 points each:  
[10] Patients with depression tend to have low levels of this neurotransmitter in the brain, but the relation between the two is not clear. S·S·R·Is are antidepressant drugs designed to increase the levels of this neurotransmitter in the brain.

ANSWER: **serotonin** [accept **5-hydroxytryptamine** or **5-H·T**]

[10] Most serotonin is actually found outside of the central nervous system, secreted by these cells that lie in intestinal crypts between villi. These cells are responsible for rare neuro-endocrine tumors called carcinoids.

ANSWER: **entero-chromaffin** cells [accept **Kulchitsky** cells; do not accept “entero-chromaffin-like cells”]

[10] Serotonin also affects exocytosis of alpha-granules in these cells by modifying G·T·Pases. Megakaryocytes in the bone marrow produce these cells that play a central role in thrombosis.

ANSWER: **platelets** [accept **thrombocytes**]

<DG, Biology>

22. Following this book’s release, much of its early attention originated with the public nature of a feud between its author and publisher Robert Bell. For 10 points each:

[10] Name this incendiary 18th century text. Famously referring to the idea of government as a “necessary evil,” this is the most famous work of an author who later expressed similar views in his pamphlet series *The American Crisis*.

ANSWER: **Common Sense**

[10] *Common Sense* remains the masterwork of this American Founding Father, who later wrote a defense of the French Revolution entitled *Rights of Man*, although that didn’t stop the French from locking him up in Paris in 1793.

ANSWER: Thomas **Paine**

[10] A slightly less celebrated literary work from Revolutionary-Era America was a series of essays by the “Penman of the Revolution,” John Dickinson, entitled *Letters from [one of these figures] in Pennsylvania*.

ANSWER: a **farmer** [accept *Letters from a **Farmer** in Pennsylvania*; accept *Letters from a Pennsylvania **Farmer***]

<TM, American History>

23. The fundamental postulate of statistical mechanics, also called the principle of equal a priori probabilities, says that all accessible ones of these things are equally likely for an isolated system. For 10 points each:

[10] Name these microscopic configurations of a thermodynamic system.

ANSWER: **microstates**

[10] This extensive property of a system is defined as Boltzmann’s constant times the natural log of the number of accessible microstates. This quantity is often interpreted as the amount of disorder in a system.

ANSWER: **entropy** [or **S**]

[10] The assumption that all microstates are equally likely is equivalent to the statement that a system has this property, in which time averages of macroscopic variables can be replaced by ensemble averages.

ANSWER: **ergodic** [accept **ergodic** hypothesis]

<LL, Physics>

24. Name some things about pieces composed using themes by the “devil’s violinist,” Niccolò Paganini. For 10 points each:

[10] This composer was so impressed by the final movement of Paganini’s Violin Concerto 2 that he quoted it in his piece *La Campanella*. His Piano Sonata in B minor is considered an exemplar of double-function form.

ANSWER: Franz **Liszt**

[10] Johannes Brahms’ *Variation on a Theme of Paganini* opens with a theme taken from this piece by Paganini. This piece in A minor is the last of a set of works by Paganini written for solo violin.

ANSWER: **Caprice** No. **24** in A Minor [prompt on partial answer]

[10] This composer’s *Rhapsody on a Theme of Paganini* also opened with a theme from Caprice 24. This Russian composer is also famous for his four piano concertos and his tone poem *Isle of the Dead*.

ANSWER: Sergei **Rachmaninoff**

<LL, Classical Music>