

1. One of these structures was saved by quick orders from Fred Weyand. In 1998, Ayman al-Zawahiri and Osama bin Laden helped the Egyptian Islamic Jihad bomb buildings of this type with suicide trucks in Nairobi and Dar-es-Salaam. Workers at one of these buildings were targeted by the failed Operation Eagle Claw, during which a helicopter ran into a C-130 plane and exploded, and took part in the (*) Canadian Caper. The largest of these buildings was built in the 2000s in the Green Zone. Examples of these buildings include one saved by a helicopter landing during the Tet Offensive in Saigon and one where hostages were held for 444 days by student supporters of Ayatollah Khomeini. For 10 points, name this type of building whose employees have diplomatic immunity.

ANSWER: United States embassies [or American embassy compounds; prompt on "diplomatic mission," "diplomatic quarter," etc.; do not accept or prompt on "consulate" or "consulates"]

<Wasserman>

2. A speech given in support of this policy contained a Latin *Aeneid* quote about the "tide of fortune...ebb[ing] faster than it flowed earlier". Chief Secretary Gerald Balfour summarized his policy as "killing" this goal "with kindness." A political party dedicated to this goal was first led by Isaac Butt. Edward Carson and James Craig, leaders of the (*) Unionists, campaigned against a 1914 bill aiming to bring about this outcome. William Gladstone proposed the first bill named for this goal, having been influenced by his work on land reform with Kitty O'Shea's lover Charles Parnell. For 10 points, name this goal of self-governance for an island west of Great Britain.

ANSWER: Irish Home Rule [or Irish autonomy; accept Irish self-governance before "self-governance" is read; prompt on "Irish nationalism" or related answers; do not accept or prompt on "Irish independence"]

<Gupta>

3. In one dialogue, Simmias of Thebes compares this entity to a tune played on a harp. Avicenna devised the "Floating Man" thought experiment to demonstrate the substantiality of this entity. Plotinus divides this entity into a higher and a lower, more fragmented part, and together with "The One" and "The Intellect," it is one of his three basic principles. Aristotle describes the "nutritive" and "perceptual" faculties of this entity, which he compares to "form" in *De (*) Anima*. Descartes claimed this entity resided in the pineal gland, and Socrates gave four arguments for its immortality in Plato's *Phaedo*. For 10 points, name this metaphysical concept often postulated to be an immaterial entity that survives the death of the body.

ANSWER: the soul

<Kothari>

4. In one of this author's poems, the speaker remembers a time when he was "happy upon the heath" before his parents "clothed [him] in clothes of death" and went "up to the church to pray." Another of his poems describes a voice that makes "all the vales rejoice". This author describes a "little black thing among the snow" who cries "in tones of woe" (*) "'weep! 'weep!" in "The Chimney Sweeper". Another of his poems asks "Did he smile his work to see" after "the stars threw down their spears" and "watered heaven with their tears." That poem by this author describes a creature "burning bright, in the forests of the night." For 10 points, name this British poet whose *Songs of Innocence and Experience* includes "The Lamb" and "The Tyger."

ANSWER: William Blake

<Schindler>

5. The sum from i equals zero to j of this operation for an input of i applied to n plus i elements is equal to this operation for an input of j applied to n plus j plus one elements, according to the hockey stick, or Christmas stocking, theorem. Three instances of this operation are used to define the probability mass function for the hypergeometric distribution. A symmetrical triangular array of numbers computed using this operation is (*) Pascal's triangle, whose rows are the binomial coefficients. This operation is normally written with parentheses around an n and a k , written on two rows, and is called " n choose k ". For 10 points, name this operation for computing the number of ways to choose elements from a set where order does not matter, not to be confused with permutations.

ANSWER: k -combinations [or n choose k until it is read; or other variables in place of " k ", such as " r "]

<Voight>

6. The logarithm of viscosity is linearly related to the logarithm of this quantity in the Mark-Houwink-Sakurada equation. Osmometry experiments measure the number-average form of this quantity. The polydispersity index measures the variance of this quantity in a polymer. This quantity is empirically calculated as the cryoscopic constant times mass fraction divided by the change in temperature. The rate of (*) effusion is inversely proportional to the square root of this quantity according to Graham's Law. For an ideal gas, it equals the density times RT over the pressure. For carbon dioxide, it's 44. For 10 points, name this quantity, the sum of the atomic masses in a molecule.

ANSWER: molar mass [or molecular mass; or molecular weight; or formula weight; prompt on mass or weight]

<Silverman>

7. This man names a four-class model of formal systems in which "Type 0" unrestricted systems are a superset of "Type 1" context-sensitive systems. This student of Zelig Harris argued that reinforcement-based theories of learning ignored a lack of early childhood inputs in a review of B. F. Skinner. This namesake of a "hierarchy" and issuer of the (*) "poverty of the stimulus" argument wrote that transformations turn "deep structure" into "surface structure" expressions of ideas in a book which used the absurd example sentence "Colorless green ideas sleep furiously." For 10 points, name this theorist and political writer who wrote about generative grammar in *Syntactic Structures*, a pioneering MIT linguist.

ANSWER: Noam Chomsky [or Avram Noam Chomsky]

<Jackson>

8. On this god's "Great Night," worshipers imitate a hunter who escaped tigers by dropping a thousand bilwa leaves on a representation of him. Devotees of this god draw three *vibhuti* lines across their foreheads in white ash. He is shown with his hair turning into a river in depictions of that river's descent. This god is often depicted resting on an animal skin and holding a (*) trident; alternatively, he crushes a dwarf beneath his foot as *Nataraja*, the cosmic dancer. Mount Kailasa is sacred to this god, the husband of Parvati and father of Ganesh. For 10 points, name this destroyer god of the Hindu Trimurti.

ANSWER: Shiva [or Siva]

<Bollinger>

9. This composer's eighth symphony begins with a set of "variations without a theme". In one of his pieces, the solo violin enters by playing a rising pentatonic melody beginning "D-E-D-E-A". The first and last movements of this composer's second symphony feature a harp imitating the Westminster Chimes. Several Walt Whitman poems are set in his first symphony, whose second movement is titled "On the (*) Beach at Night, Alone". This composer wrote a piece based on a George Meredith poem about a singing bird and a piece for four solo strings and double string orchestra which is based on the "Third Mode Melody" of an earlier English composer. For 10 points, name this English composer of *The Lark Ascending* and *Fantasia on a Theme by Thomas Tallis*.

ANSWER: Ralph Vaughan Williams

<Lawrence>

10. One of this author's protagonists breaks up with Maxine Ratliff after the death of his father and later marries his childhood friend Moushumi, who cheats on him with Dmitri Desjardins. Another of this author's characters asks if it is pain or guilt that a woman has spent eight years feeling while on a trip to the Sun Temple at Konarak. The father of another of her characters is saved from a train crash when he is noticed waving pages from "The (*) Overcoat". She wrote a story in which Mrs. Das's carelessness causes Bobby to be swarmed by monkeys, whereupon he is saved by the title character, a part-time tour guide named Mr. Kapasi. For 10 points, name this Bengali-American author of *The Namesake* and "The Interpreter of Maladies".

ANSWER: Jhumpa Lahiri [or Nilanjana Sudeshna Lahiri]

<Carson>

11. A quantity named for one of these objects can be expressed as a sum over copies of the L equals one solid harmonic. A time-varying one of these objects emits radiative power proportional to the fourth power of its frequency. The torque on one of them is perpendicular to an applied electric field, and the strength of one of them is equal to a volume integral of charge density times position. This object gives its name to the one over (*) r -squared term in a power series for electric potential, and its electric field falls off as one over r cubed. For 10 points, name these objects whose "moments" are measured in debyes, charge configurations consisting of two equal and opposite charges separated by a small distance.

ANSWER: electric dipole

<Eltinge>

12. A character created by this author runs off to New York with Bradd Criley, a friend of her husband, a small-town judge, but at that novel's end, Jinny Marshland ends up reuniting with the title character. Another of this man's characters creates the Minute Men after defeating Walt Trowbridge and FDR to win the presidency. Doremus (*) Jessup opposes the fascist takeover of America led by Buzz Windrip in this man's novel *It Can't Happen Here*. One of this man's characters moves with her son Hugh to Washington and leaves her husband Will after failing to put on "Androcles and the Lion" with the Thanatopsis Club. For 10 points, name this author of *Cass Timberlane* who described Carol Kennicott's life in Gopher Prairie in his novel *Main Street*.

ANSWER: Sinclair Lewis [or Harry Sinclair Lewis]

<Mehigan>

13. **The Consag and Wagner Basins are located in the northern part of this body of water, which is home to the Ballenas Fault. The Yaqui River passes through the Plutarco Calles Reservoir before emptying into this body of water, which was once known as the "Vermillion Sea" due to its extensive red plankton. The totoaba and the endangered mini-porpoise known as the (*) vaquita are endemic to this body of water, which Jacques Cousteau called "the world's aquarium." Mazatlán is located on the far southeastern part of this body of water in the state of Sinaloa, and the Colorado River empties into this body of water in the state of Sonora. For 10 points, name this body of water located between mainland Mexico and a namesake "Baja" peninsula.**

ANSWER: Gulf of California [or Sea of Cortez; or Golfo de California; or Mar de Cortés]

<Karas>

14. **This class of proteins is carboxymethylated and stored in Mallory bodies in hepatocytes. Filaggrin binds to members of this protein family. These proteins are split into two homology classes: acidic and basic. Epidermolysis bullosa simplex is caused by a defect in one of these proteins. The alpha class of them forms a coiled coil. Cells named for these proteins differentiate in a process called (*) cornification, and are shed through desquamation. These proteins are easily oxidized because of their high concentration of sulfur. They make up a major class of intermediate filaments. 95% of the epidermis consists of cells that make these proteins. For 10 points, name this class of strong proteins found in human hair and fingernails.**

ANSWER: keratins [or cytokeratins]

<Silverman>

15. **Many of the title roles of this composer's operas were created by the soprano Hortense Schneider. The traveler Baron Gondremarck attempts to arrange a liaison with Metella in this man's first opera with a contemporary setting, *La vie parisienne*. His final opera is divided into three acts named "Olympia", "Antonia", and "Giulietta", the last of which opens with "Belle nuit, o nuit d'amour", a famous (*) barcarolle. The character of Public Opinion introduces his most famous operetta, a Christoph Willibald Gluck parody which closes with the "Galop Infernal", whose tune became closely associated with the can-can. For 10 points, name this French composer of the operas *Tales of Hoffman* and *Orpheus in the Underworld*.**

ANSWER: Jacques Offenbach

<Carson>

16. **In accounts of this dynasty, the wife of its first emperor locked a concubine named Qi in a latrine. A chronicler during this dynasty served as court astrologer before his defense of his friend Li Ling led to his imprisonment and choice to become a eunuch. The *Shiji*, or *Records of the Grand Historian*, were written by (*) Sima Qian during this dynasty, which included the first emperors called Wen Di and Wu Di. Histories of this era begin to use the name "Xiongnu" for barbarians to its north, and divide it into periods before and after Wang Mang's interruption. It also faced the Yellow Turban rebellion before the Three Kingdoms era. For 10 points, name this dynasty which ruled China at the turn from BCE to CE, after the Qin.**

ANSWER: Han dynasty

<Jackson>

17. A remembrance "league" named for this city was patronized by Princess Beatrice, whose son, Prince Maurice of Battenberg, was killed in a battle for it. Fighting at St. Julien and Kitcheners' Wood occurred around this city in the first battles in which a Canadian force defeated a European power. The goal of the Lys offensive was the capture of this city, which was the location of the final battle of the Race to the (*) Sea as trenches were dug in 1914. The third battle named for this city is also named for a town five miles to its east called Passchendaele. The second battle for this city marked the first widespread use of poison gas during World War I. For 10 points, name this Belgian city that the British nicknamed "Wipers."

ANSWER: Ypres [(EEpr); or Ieper; accept Wipers before "Wipers"]

<Hart>

18. One of this author's characters stops himself from sleeping with a divorcee by cutting off his own finger and reaffirming his desire to be a monk. A second-person description of a military hospital and a story whose "only hero is truth," set in December and May respectively, are two parts of another of this man's works. This author of "Father Sergius" and the (*) *Sevastopol Sketches* wrote a novella whose protagonist wonders "What if my whole life has been wrong?" while observing his servant Gerasim, after which he spends three days screaming before "some force" strikes him and he succumbs to his injuries from a curtain-hanging mishap. For 10 points, name this author of *The Death of Ivan Ilyich*, a Russian who also wrote *War and Peace*.

ANSWER: Leo Tolstoy [or Lev Nikolayevich Tolstoy]

<Carson>

19. This painting was inspired by the artist's friendship with the surgeon Henri Savigny and was an indictment of the vicomte de Chaumareys. Its artist hired Alexandre Correard to build a realistic scale model of its subject. This painting's exhibition at London's Egyptian Hall was more successful than its debut at the 1819 Paris Salon. In this painting's bottom-left, a gray-haired father adopts a Thinker pose and grasps his son's (*) pallid body. The artist arranged the figures in this painting in two pyramidal structures and made preparatory sketches of corpses and severed body parts. It depicts a black man waving a red and white cloth to attract the attention of a distant ship. For 10 points, name this Theodore Gericault painting of survivors of a shipwreck.

ANSWER: *The Raft of the Medusa* [or *Le Radeau de la Meduse*]

<Bentley>

20. During one of these events for Anchises' funeral, Jupiter sends down fire to honor Acestes. In the *Mahabharata*, participants in one of these events keep their eyes on the reflection of an artificial fish. Draupadi is married based on the outcome of one of these events, which Arjuna wins. After failing in one of these events, (*) Antinous and Eurymachus try to prevent a beggar from participating. The most famous of these incidents in myth involves a row of twelve axeheads; after winning that one, Odysseus massacres the suitors. For 10 points, identify the sort of athletic competition that Robin Hood won by splitting his opponent's arrow.

ANSWER: archery contests [accept anything that indicates a competition involving shooting a bow and arrow]

<Bollinger>

21. **This poet modified the motto of the Society of the Cincinnati for the epigraph of one of his poems. This poet described his boyhood in "91 Revere Street," a prose section of a larger work that includes a poem about his loss of faith and a train ride from Rome to Paris. This poet of "Beyond the Alps" mentioned a "summer millionaire, who seemed to leap from an (*) L. L. Bean catalogue" in a poem that describes "Nautilus Island's hermit heiress;" that poem ends with an animal jabbing its head into a cup of sour cream. Another poem by this man describes a monument across from the South Boston Aquarium that "sticks like a fishbone in the city's throat." This man's *Life Studies* includes "Skunk Hour." For 10 points, name this poet of "For the Union Dead."**

ANSWER: Robert Lowell [or Robert Traill Spence "Cal" Lowell IV]

<Mehigan>

22. **An odd asymmetric form of this condition is characteristic of Russell-Silver syndrome. A defect in the FGFR3 gene leads to the most common cause of this condition. Children born with a cloverleaf-shaped skull often experience the thanatophoric form of this condition. This is the most obvious physical effect of Laron Syndrome because of a defect in the pathway to make IGF-1. A dominant autosomal disease called (*) achondroplasia results in this condition due to the inability of sufferers to make cartilage for epiphyseal plates. The "proportional" form of this disorder is common in Turner syndrome patients, and it may also be caused by hypothyroidism. For 10 points, name this condition which can be caused by growth hormone deficiencies.**

ANSWER: dwarfism [or word forms]

<Silverman>

23. **A historic industry in this nation was damaged in the 1970s by the "quartz crisis". Legends in this country's history include the Oath of the Rutli. A public display of meat-eating during Lent in this country sparked the Affair of the Sausages. A victory of this nation over Leopold I's Austrian cavalry at Morgarten united three (*) "forest" regions in its center. Warriors from here lost the 1515 battle of Marignano, when their heavy use of the pike failed them. A reformer who argued for a purely symbolic Eucharist at the Marburg Colloquy was from here, as is a group of mercenaries who dress in blue and yellow stripes to protect the Pope. For 10 points, name this home of Reformation leader Huldrych Zwingli, a landlocked, long-neutral European nation.**

ANSWER: Switzerland [or Old Swiss Confederation; or Helvetic Republic]

<Bentley>

24. **Mike Lerner co-directed a 2013 documentary titled for this group and a "prayer." In March 2014, some members of this group were attacked by men wearing the Ribbon of St. George during a campaign for prison reform. This group shares membership with Voina. Two of its most prominent members collaborated with Madonna in a 2014 benefit concert for Amnesty International. Performances by this group typically involve its members wearing colorful (*) balaclavas over their faces, such as at a controversial incident at the Cathedral of Christ the Savior where they performed "Mother of God, Drive Putin Away." Gary Kasparov was beaten by police while protesting the 2012 trial of some members of this group. For 10 points, name this Russian female punk band.**

ANSWER: Pussy Riot

<Bentley>

1. This compound transfers carbon dioxide to pyruvate as a prosthetic group for pyruvate decarboxylase.

For 10 points each:

[10] Name this B vitamin consisting of an imidazoline ring fused to a sulfur containing ring with a valerate side chain. It has an extremely high affinity for avidin and streptavidin.

ANSWER: **biotin** [or vitamin **B7**; or vitamin **H**]

[10] Secondary antibodies can be linked to biotin, then hybridize to primary antibodies, in this analytical technique used to detect the presence of a given protein. Horseradish peroxidase is a common reporter for this technique. It was *not* named for a biologist.

ANSWER: **Western blot**

[10] Horseradish peroxidase is useful because, in addition to amplifying a signal, it catalyzes an oxidation reaction that results in this phenomenon, the production of light. Luciferase catalyzes this process in fireflies.

ANSWER: bioluminescence [or chemiluminescence]

<Silverman>

2. This character fathers the future Crown Prince Reizei during an affair with Lady Fujitsubo and, at various times, marries Aoi no Ue, a young girl based on the author, and a woman known as "Third Princess". For 10 points each:

[10] Name this princely title character of a Heian-period novel attributed to Lady Murasaki.

ANSWER: Hikaru **Genji** [or Shining **Genji**; or *The Tale of Genji*; or *Genji monogatari*]

[10] The "Uji chapters" at the end of *The Tale of Genji* are preceded by the chapter "Kumogakure", or "Vanished into the Clouds", which is left blank to signify this event.

ANSWER: Genji's **death** [or word forms; or more specific answers, such as **suicide** even though his method of death isn't made clear]

[10] One of Genji's affairs results in his exile to the town of Suma, which may have inspired the use of the phrase "going to Suma" to refer to extramarital affairs in this man's novel *Some Prefer Nettles*. This Japanese author also wrote *The Makioka Sisters*.

ANSWER: Jun'ichiro **Tanizaki** [accept names in either order]

<Carson>

3. This work's later editions includes a section entitled "An Attempt at Self-Criticism," in which the author repudiates his foolish youthful philosophy. For 10 points each:

[10] Name this book that contrasts the Apollonian and Dionysian aesthetics and argues that the plays of Euripides shattered the power of title Athenian art form to provide meaning to a meaningless world.

ANSWER: *The **Birth of Tragedy** from the Spirit of Music* [or *Die **Geburt der Tragödie** aus dem Geiste der Musik*]

[10] *The Birth of Tragedy* was written by this mustachioed German philosopher, who argued that humans was driven by the "will to power" in books like *The Gay Science* and *Thus Spake Zarathustra*.

ANSWER: Friedrich Wilhelm **Nietzsche**

[10] Nietzsche's book *Human, All Too Human* contains this kind of short, disconnected philosophical statements that concisely convey his thoughts. Examples of these include "And if you gaze for long into an abyss, the abyss gazes also into you."

ANSWER: **aphorisms**

<Jose>

4. The Poiseuille equation gives the pressure drop for a fluid in one of these objects as proportional to their length and inversely proportional to the fourth power of their radius. For 10 points each:

[10] Identify these cylindrical fluid conveyances.

ANSWER: cylindrical **pipes** [or cylindrical **tubes**]

[10] The Darcy equation for head loss in pipes is used to find the energy loss due to this phenomenon. Its namesake factor in the Darcy equation differs greatly for laminar, transitional, and turbulent flow and also depends on the roughness of the pipe wall.

ANSWER: **frictional** [or word forms; prompt on **major** loss]

[10] The Reynolds number, which determines if a fluid flow is laminar, transitional, or turbulent, is the ratio of inertial forces to forces due to this quantity. For a Newtonian fluid, this quantity is constant regardless of the applied stress.

ANSWER: **viscosity** [or word forms]

<Voight>

5. Answer some questions about Roman music, for 10 points each.

[10] The Roman school of polyphony was led by this Renaissance composer, whose *Pope Marcellus Mass* was said to have "saved polyphony".

ANSWER: Giovanni Pierluigi da **Palestrina**

[10] This Italian composer's *Roman Trilogy* consists of *Pines of Rome*, *Fountains of Rome*, and *Roman Festivals*.

ANSWER: Ottorino **Respighi**

[10] A trip to Rome inspired this Tchaikovsky orchestral work, which opens with a bugle call inspired by the Italian cavalry and includes a rousing tarantella.

ANSWER: ***Capriccio Italien***, ***Op. 45*** [accept either underlined portion]

<Lawrence>

6. Israel's official policy of "ambiguity" and its unrecognized facility at Dimona are two reasons why it has never become a signatory to this treaty. For 10 points each:

[10] Name this treaty from which North Korea withdrew in 2003 after announcing tests at the Yongbyon site. It preceded the Comprehensive Test Ban Treaty.

ANSWER: Treaty on the **Non-Proliferation** of Nuclear Weapons [or Nuclear **Non-Proliferation** Treaty]

[10] This man was captured in Italy by Mossad agents and tried for treason after leaking information about Israel's nuclear program to the British media in 1986.

ANSWER: Mordechai **Vanunu** [or John **Crossman**]

[10] These two rival countries, both non-signatories of the Non-Proliferation Treaty, fought the Kargil War against one another in 1999 over land in Kashmir.

ANSWER: Republic of **India** and Islamic Republic of **Pakistan** [accept Ganarajya **Bharat** in place of "India"]

<Karas>

7. Denver rarely leaves the house at this address. For 10 points each:

[10] Identify this address, the location of a house that Howard and Bulgar flee because they believe it is haunted. Other residents here used to live on the Sweet Home plantation.

ANSWER: **124** Bluestone Road

[10] This novel opens with the observation that "124 was spiteful" and "full of a baby's venom." In this novel, Baby Suggs is the mother of Halle and mother-in-law of the protagonist.

ANSWER: ***Beloved***

[10] This American author of *Song of Solomon* told the story of Sethe's infanticide in *Beloved*.

ANSWER: Toni **Morrison** [or Chloe Ardelia **Wofford**]

<Mehigan>

8. Name some things about communication theory, for 10 points each.

[10] Some scholars focus on studying these technologies that enable mass communication between groups of people. They include radio, tv, and the internet.

ANSWER: **mass media** [prompt on "media"; reverse prompt on "mainstream media"]

[10] Early critics like FR Leavis claimed that mass media satisfied only "at the lowest level" and would corrupt the elite, intellectual form of this concept. Matthew Arnold defined this concept as the "best that has been thought and said in the world" and contrasted it with anarchy.

ANSWER: **culture**

[10] This Canadian man argued that communication theory should study form rather than content when he claimed "the medium is the message" in *The Gutenberg Galaxy*. He also distinguished between "hot" and "cool" media in *Understanding Media*.

ANSWER: Marshall **McLuhan** [or Herbert Marshall **McLuhan**]

<Spencer>

9. This man earned the nickname of "The Weeper" from Georges Clemenceau. For 10 points each:

[10] Name this man, the Italian Prime Minister from 1917 until 1919.

ANSWER: Vittorio Emanuele **Orlando**

[10] Vittorio Orlando was completely ineffective at this peace conference, which he left in a huff. It followed World War I and produced the Treaty of Versailles.

ANSWER: **Paris** Peace Conference

[10] Orlando became Prime Minister after this huge Italian loss against Germany and Austria in October 1917. At this battle, a young Erwin Rommel led the capture of several hills near the Isonzo River.

ANSWER: Battle of **Caporetto**

<Bentley>

10. Astronomers hawk trinkets at the eight planetary posts of a structure in this country. For 10 points each:

[10] Name this country that contains the widely-visited Shwedagon Pagoda and the Ananda Temple.

ANSWER: **Burma** [or **Myanmar**]

[10] Though called a pagoda, Shwedagon Paya also serves as this kind of structure, which house Buddhist relics. Most are mound-shaped.

ANSWER: **stupa**

[10] Another gold religious building is the Golden Temple at Amritsar, which is holy to practitioners of this religion.

ANSWER: **Sikhism**

<Gupta>

11. This essay asserts that "who kills a man kills a reasonable creature, God's image; but he who destroys a good book, kills reason itself". For 10 points each:

[10] Identify this attack on the Press Ordinance of 1643, a passionate defense of freedom of speech named after an Athenian court.

ANSWER: "**Areopagitica**"

[10] "Areopagitica" was written by this English poet, who elegized his drowned friend Edward King in "Lycidas" and attempted to "justify the ways of God to men" in his *Paradise Lost*.

ANSWER: John **Milton**

[10] In "Lycidas", a speech given by the "pilot of the Galilean lake" concludes with a warning that this oft-analyzed, enigmatic object is "at the door", where it "stands ready to smite once, and smite no more".

ANSWER: "that **two-handed engine**" [prompt on partial answer]

<Carson>

12. This war began following the declaration of the Twelve Articles by the Swabian League. For 10 points each:

[10] Name this war, in which Thomas Muntzer led one side to defeat at the 1525 Battle of Frankenhausen.

ANSWER: German **Peasants'** War [or German **Peasants'** Revolt; or Deutscher **Baumkrieg**]

[10] This theologian wrote a pamphlet called *Against the Murderous, Thieving Hordes of Peasants* to come out against the Peasants' Revolt. He issued his 95 Theses in Wittenberg.

ANSWER: Martin **Luther**

[10] This other, more radical Reformation theologian lent his first name to a sect of Anabaptism often confused with the Amish. His followers wrote the Dordrecht Confession.

ANSWER: Menno **Simons** [or **Menno** Simons]

<Nutter>

13. This artist won her most famous commission while still an undergraduate with a plan for a V-shaped work made of polished black granite. For 10 points each:

[10] Identify this artist who included a quote from Martin Luther King, Jr. on a Civil Rights monument commissioned by the Southern Poverty Law Center.

ANSWER: Maya Ying **Lin**

[10] Maya Lin created a memorial on the National Mall in the form of a "Wall" which commemorates veterans of this conflict.

ANSWER: the **Vietnam** War

[10] Robert McNamara discusses the Vietnam War during several of the eleven "lessons" outlined in *The Fog of War*, a documentary directed by this man. Other films by this frequent collaborator with Philip Glass include *A Brief History of Time* and *The Thin Blue Line*.

ANSWER: Errol Mark **Morris**

<Bentley>

14. This man advocated for the entry of blacks into labor unions in his journal, *The Messenger*. For 10 points each:

[10] Name this early civil rights leader who founded the Brotherhood of Sleeping Car Porters.

ANSWER: Asa Philip **Randolph**

[10] This man's namesake Palace Car Company popularized sleeping cars. Eugene Debs led a strike against his company in 1894 which President Cleveland suppressed with federal troops.

ANSWER: George Mortimer **Pullman** [or **Pullman** Palace Car Company; or **Pullman** strike]

[10] Randolph organized the first event of this type in 1941 to pressure FDR to integrate World War II munitions factories. Gay civil rights advocate Bayard Rustin planned another.

ANSWER: **March on Washington** for Jobs and Freedom [or obvious equivalents, such as mass **marches** on **Washington**, District of Columbia]

<Bentley>

15. This character meets a woman with a constantly-changing name after flying to the country of Ataguitana and seeks out Professor Uzzi-Tuzii in order to learn about Cimmeria and Cimbria. For 10 points each:

[10] Name this character who meets Ludmilla after discovering that they have both purchased a misprinted copy of a book by Tazio Bazakbal, rather than a copy of *If on a winter's night a traveler*.

ANSWER: **you** [or **me**; or the **Reader**; prompt on "the protagonist (of *If on a winter's night a traveler*)"]

[10] *If on a winter's night a traveler* is the most famous novel by this Italian postmodernist, whose other works include *Invisible Cities* and the short story collection *Cosmicomics*.

ANSWER: Italo **Calvino**

[10] In a novella by Calvino, the Good 'Un and the Bad 'Un attempt to coexist in Terralba after a cannonball causes this fate, later reversed by Dr. Trelawney, to befall the Viscount Medardo.

ANSWER: he is **cloven** in two [accept **dimezzato** or **halved** or other synonyms that generally indicate being split in two]

<Carson>

16. One of Psyche's tasks was to retrieve a handful of water from this river. For 10 points each:

[10] Name this river of the underworld on which the gods swore oaths.

ANSWER: **Styx**

[10] This other river of the underworld was a river of fire. One story states that she was a lover of Styx who was burned to death, but they were happily reunited by Hades.

ANSWER: **Phlegethon**

[10] Another river of the underworld, Lethe, personified this concept. When souls came to Hades for the first time, they drank from it.

ANSWER: **forgetfulness** [accept other equivalents such as **loss of memory** or **oblivion**]

<Jose>

17. This man's life was saved thanks to the quick work of Dr. John Martyn Harlow, who followed up his initial report on this man with a study of his personal history published twenty years later. For 10 points each:

[10] Name this man who was working for the Rutland and Burlington Railroad when a blasting powder mishap sent a tamping iron through his skull, an incident which supposedly caused drastic changes in his demeanor.

ANSWER: Phineas P. **Gage**

[10] Gage suffered damage to one or both of these lobes of his brain. They are also home to Broca's area, which controls speech production.

ANSWER: **frontal** lobes

[10] Later in life, Gage worked in Chile as a driver of these vehicles. Those belonging to Wells Fargo carried strongboxes full of valuables, making them targets for men such as Reimund Holzhey and Black Bart.

ANSWER: **stagecoaches** [or **stages**]

<Carson>

18. Answer the following about solubility product constants, for 10 points each:

[10] Solubility product constants quantify the extent of a reaction in this situation, which occurs when the forward reaction occurs at the same rate as the reverse reaction, so the concentration of reactants and products doesn't change.

ANSWER: chemical **equilibrium**

[10] According to the law of mass action, the equilibrium constant represents the product of each species' concentration, each raised to the power of this reaction-specific parameter.

ANSWER: stoichiometric **coefficient** [prompt on **nu**]

[10] Consider the dissociation equilibrium "A goes to B plus C". If A is solid and B and C are both aqueous, then the final concentration of B is what function of the solubility product constant?

ANSWER: **square root** of the solubility product constant [or the solubility product constant raised to the **one-half power**]

<Silverman>

19. This technique was invented in Munich in 1798 by Alois Senefelder, although it first became popular through the chalk method which allows for a broader tonal spectrum. For 10 points each:

[10] Identify this artistic printmaking medium in which an image is drawn onto a plate in oil or fat, the plate is etched with acid and then washed with water, and an oil-based ink which sticks only to the original image is applied.

ANSWER: **lithography** [or word forms]

[10] This Spanish artist included both etchings and lithographs in his *Disasters of War* series. He also painted *The Third of May, 1808* and *Saturn Devouring His Son*.

ANSWER: Francisco **Goya** [or Francisco José de **Goya** y Lucientes]

[10] This French Symbolist created the lithograph series *Dans le Rêve* and painted 17 panels to decorate Baron Robert de Domecy's dining room. He depicted Polyphemus poking his head over a ridge to observe the sleeping Galatea in *The Cyclops*.

ANSWER: Odilon **Redon** [or Bertrand-Jean **Redon**]

<Bentley>

20. *NOTE TO MODERATOR: do not read the alternate answers to the first bonus part.*

The hypothesis that this value is inversely proportional to the age of the universe and thus decreasing was proposed by Paul Dirac. For 10 points each:

[10] Name this constant of proportionality that appears in the numerator of the equation for the Schwarzschild radius.

ANSWER: universal **gravitational constant** [or **big G**; or **Newton's constant**; prompt on **G**; do not accept "little g"]

[10] The universal gravitational constant appears in this scientist's law of universal gravitation, which apocryphally came to him when he got hit on the head with an apple while sitting under an apple tree.

ANSWER: Isaac **Newton**

[10] Cavendish used one of these devices, invented by his mentor John Michell, to "weigh the earth" in his famous experiment measuring the universal gravitational constant. It consists of a twisted fibre whose energy is unleashed when it is untwisted.

ANSWER: **torsional balance** [or **torsional bar**; or **torsional wire**; or **torsional pendulum**]

<Jose>

21. This novel's three different endings differ primarily in how the relationships between Ernestina Freeman, Charles Smithson, and the title character turn out. For 10 points each:

[10] Name this John Fowles novel whose title character, Sarah Woodruff, was disgraced by her affair with the naval officer Varguennes.

ANSWER: *The **French Lieutenant's Woman***

[10] This author, the sister of fellow novelist Margaret Drabble, wrote her Booker-winning 1990 novel *Possession* partly as a response to *The French Lieutenant's Woman*.

ANSWER: A.S. **Byatt** [or Antonia Susan **Duffy**; prompt on "Drabble" but accept **Antonia Susan Drabble**]

[10] *Possession*'s fictional Victorian poet Randolph Henry Ash is based in part on this author of "Ulysses" and "Tithonus", who wrote "'Tis better to have loved and lost / than never to have loved at all" in his "In Memoriam A.H.H.".

ANSWER: Alfred, Lord **Tennyson** [or Alfred **Tennyson**, 1st Baron Tennyson]

<Carson>

22. This data structure contains an entry for a piece of data and a reference to another node for the next piece of data. For 10 points each:

[10] Name this data structure that is often used to implement stacks and queues.

ANSWER: **linked lists**

[10] The reference to another node in a linked list is typically of this data type, whose value is an address in memory. A very common Java exception named for the "null" type of them often occurs when you declare a variable, but do not create an object before dereferencing it.

ANSWER: **pointers**

[10] Linked lists may have these empty nodes at their ends in order to reduce off by one errors.

ANSWER: **sentinel** nodes

<Jose>

23. News of this battle's outcome prompted more interest from the French in aiding the American Revolution, after an unexpected attack from a pre-treacherous Benedict Arnold surprised the losing side at Bemis Heights. For 10 points each:

[10] Name this battle whose first stage was fought at Freeman's Farm in upstate New York in the autumn of 1777. It stopped British plans to cut New England off from the southern states.

ANSWER: Battle of **Saratoga** [or **Saratoga** Campaign]

[10] State the outcome of the battle of Saratoga in terms of the commander who won and the commander who lost.

ANSWER: Horatio **Gates** **defeated** John **Burgoyne** [accept any answer indicating that Horatio **Gates** **won** and **Burgoyne** **lost**; prompt on answers such as "Americans defeated British"]

[10] This man designed the winning fortifications at Bemis Heights during the Saratoga campaign. This engineer of the defenses at West Point left the continent after the war.

ANSWER: Thaddeus **Kosciuszko** [or Tadeusz **Kosciuszko**]

<Hart>