

1. The first holder of this position initially refused to reenter the body of an opponent who wrote the essay "The Iron Wall." A speech about "eaters of hares" derailed the "Dirty Trick," a 1990 scheme by the Alignment Party to regain this position. Its first holder alienated his allies by demanding public hearings after Unit 131 firebombed American and British holdings in a false flag operation known as the (*) Lavon Affair. An interim holder of this office lent his name to the Allon Plan, and its first three holders came from the Mapai party. A "revolutionary" 1977 election elevated Menachem Begin, head of the Likud party, to this position. For 10 points, name this position at the head of the Knesset currently held by Benjamin Netanyahu from Jerusalem.

ANSWER: Prime Minister of Israel [or Rosh HaMemshala or Rais al-Hukuma; accept "Head of the Government of Israel" and prompt on partial answer as that is the literal translation of those things in Hebrew and Arabic]

<Bentley>

2. Several of this author's poems, including "Rebellion", describe a fistfight he had with his father over his desire to marry Anne Dick. He wrote a poem which states "we've lost our summer millionaire, who seemed to leap from an L. L. Bean catalogue" before averring "I myself am hell, nobody's here--only" the title creatures. Another of his poems mentions "yellow dinosaur steamshovels" and ends by stating "a savage servility slides by on grease". One of his poems describes an animal who "jabs her (*) wedge-head" into a cup of sour cream", while another opens with the image of "a Sahara of snow" around the South Boston Aquarium and describes a memorial to Robert Gould Shaw. For 10 points, name this Confessional poet of "Skunk Hour" and "For the Union Dead".

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

<Chonai>

3. The manufacture of these entities was headed by Henry Kaiser and executed by the Six Companies. The design for these units built upon the previous generation's "Hog Islander" model. The major breakthrough that William Francis Gibbs made in designing these items was to separate out the manufacture of different portions to different areas and centralize assembly alone, which allowed these items to be built in as little as (*) 42 days. 2700 of these were built, and Aristotle Onassis got his start by buying them up after the war. These notoriously-brittle vessels were built to carry out the Lend-Lease program. For 10 points, identify these hastily-built cargo vessels of World War II, named for the ideal Franklin Roosevelt intended them to secure for Europe.

ANSWER: liberty ships

<Weiner>

4. This artist depicted a young man with a leg folded over an old man in chains in his sculpture *The Genius of Victory*. He was commissioned to create the interior of a chapel in honor of the dead Giuliano and Lorenzo de Medici, for which he created sculptures representing Dawn, Day, Dusk, and Night. His most famous sculpture featured an unusually large right hand, possibly because it was originally meant to be viewed on the roofline of a cathedral, and a (*) tree stump behind its right leg. A mistranslated verse in the Vulgate is the reason he gave horns to his sculpture of *Moses*, which he made for the tomb of Julius II. For 10 points, name this Renaissance sculptor of a marble statue of *David*.

ANSWER: Michelangelo di Lodovico Buonarrotri Simoni

<Chonai>

5. This author seeks the city of Selene in order to kill Otto Goetzi in Paul Féval's novel *La Ville Vampire*. Nicola di Zampari disguises himself as a monk to deliver mysterious warnings, while another character is revealed to be Sister Olivia's daughter, in a novel by this author which sees Vincentio de Vivaldi's plans to marry Ellena Rosalba frustrated by the conspiracies of Father Schedoni. This author also created a character who is pursued by Morano and loved by Valancourt. The bandit leader Montoni imprisons Emily (*) St. Aubert in the title castle of her most famous novel, which is parodied in Jane Austen's *Northanger Abbey*. For 10 points, name this author of *The Italian* and *The Mysteries of Udolpho*, a female Gothic novelist.

ANSWER: Anne Radcliffe

<Carson>

6. This book mocks Forculus for needing Cardea and Limentius to take care of hinges and thresholds as he opens doors. It argues that the mind remains chaste even if violence is done to the body, so Lucretia should not have committed suicide. Dedicated to Marcellinus, it changes tone when the eleventh of its twenty-two books discusses the creation. This book argues that the human desire to procreate was fully rational before the fall in Eden, and calls beings such as Cybele and Juno (*) "demons". Its title group is a set of scattered pilgrims bound by faith, not by allegiance to doomed earthly empires. For 10 points, name this defense of Christianity from the paganism of recently-sacked Rome, a 410 treatise about an imagined spiritual community by Augustine.

ANSWER: *The City of God Against the Pagans* [or *De civitate Dei contra paganos*]

<Jackson>

7. One work by this man argued that third world development was hampered by traditional governmental structures that led to the creation of "soft states". This man's wife was an anti-nuclear activist who wrote *The Game of Disarmament*. He spent a decade studying the impact of population growth on prosperity, which led to his book *Asian Drama*. One book by this man described how cotton quotas and the minimum wage lead to decreased (*) black employment and the "cumulative causation" of poverty. This man worked with Ralph Bunche to gather data for his most notable book inspired by a tour of the South taken from 1938 to 1940. For 10 points, name this Swedish economist who analyzed "the Negro Problem and Modern Democracy" in *An American Dilemma*.

ANSWER: Karl Gunnar Myrdal

<Weiner>

8. Astronomical missions concerned with these entities include INTEGRAL, which was launched in 2002, and Swift, which was launched in 2004. The Compton Edge results from these entities scattering off a scintillator during spectroscopy. An optical afterglow characterizes the aftermath of the emission of these entities, which may be caused by the collision of a neutron star and a black hole. The only periodic emission of this (*) radiation are from sources called its namesake "soft repeater." This region of the spectrum is emitted during a namesake burst, which is the brightest known event in the universe. For 10 points, name this high energy region of the electromagnetic spectrum that is named after a Greek letter.

ANSWER: gamma rays [accept gamma ray bursts or GRBs or soft gamma repeaters; prompt on "photons" or "high-energy photons"]

<Jose>

9. Alfred Guillaume translated an early work of this type into English. A 1979 competition to produce a work of this type was won by *The Sealed Nectar*. A subtype focusing on military campaigns are called *maghazi*, and they are also called *sirat*. A work of this kind survives through the notes of al-Tabari and Ibn Isham; that work of this type, which tells of Abraha's (*not a typo*) failed invasion during the Year of the Elephant, was by (*) ibn Ishaq. These works often describe a ride on the human-faced steed Buraq during the Night Journey, a marriage to Khadijah, and the subject's *hijra* to Medina. For 10 points, name this type of work which provides details outside the hadith and Qur'an to tell the life of a prophet from Mecca.

ANSWER: biographies of Muhammad [accept sirat rasul Allah until "sirat" is read; accept Al-sira al-Nabawiyya until "sirat" is read; accept equivalents such as "life" in place of "biogrpahy"]

<Mukherjee>

10. The Flippin-Lodge and Burgi-Dunitz angles describe nucleophilic attack on this functional group, which can be protected by converting to a 1,3-dioxylane in a reaction with ethylene glycol. Imines can be synthesized from amines and these groups, and an alkene can be turned into two of these groups through ozonolysis. Grignard reagents attack these groups to form (*) alcohols, and phosphonium ylides convert them to alkenes in the Wittig reaction. PCC and chromic acid reagents yield these groups through oxidation of primary or secondary alcohols. Two of these groups are bound to the same oxygen atom in anhydrides. For 10 points, name this functional group found in amides, esters, ketones, and aldehydes, characterized by a carbon-oxygen double bond.

ANSWER: carbonyl group [accept aldehyde or ketone]

<Chen>

11. One king of this place was deposed by the sons of Agrius. The founder of this city had a daughter, Epicaste, who married her cousin Agenor. The namesake and founder of this place was the brother of Pleuron. One prince of this place who fled to Argos, named Tydeus, was Diomedes's father. A king of this place, with a name meaning "wine-man," ruled while a prince of this city killed his uncles (*) Toxeus and Plexippus. Its queen, Althea, threw a magical log into a fire to kill its greatest hero. After its king Oeneus forgot to make a sacrifice to Artemis, he called in Peleus, Nestor, and several other heroes to stop a rampaging beast. For 10 points, name this Greek city, outside of which Atalanta and Meleager led a hunt for its namesake boar.

ANSWER: Calydon [prompt on Aetolia; do not accept "Calydonia"]

<Mukherjee>

12. This group was responsible for burning the County Hall in Tralee, and they sent a warning letter to Bishop of Galway saying that he would suffer the same fate as Father Michael Griffin if he did not cooperate with them. They were closely related to an auxiliary division comprised of former officers which went by the nickname "Dr. Tudor's Beast Folk". Members of this group were paid just 10 shillings per day, and most were (*) veterans of World War I. This group killed 12 people in Croke Park at a football match in the aftermath of Bloody Sunday. Their name comes from a shortage of uniforms which resulted in them wearing khaki military pants. For 10 points, name these British members of the Royal Irish Constabulary group named for two colors.

ANSWER: Black and Tans [or Dúchrónaigh; prompt on "Royal Irish Constabulary" or "ADRIC" until mentioned; prompt on "Auxiliaries" or "Auxies" until "auxiliary division" is said]

<Bentley>

13. One member of this art movement painted two little girls holding hands in *The Spiegels* and a barechested man looking at the viewer with his face upside-down in *The Wrestlers*. Another member of this art movement painted dozens of naked boys jumping off of a rickety wooden walkway into a river in *Forty-Two Kids*. The leader of this group published his ideas in *The Art Spirit*. George (*) Luks belonged to this group, which included the painter of *Both Members of This Club*, who painted some angular, stylized boxers hitting each other in *Stag at Sharkey's*. For 10 points, name this American art school whose members included Robert Henri and George Bellows, known for its realistic and socially-conscious subjects.

ANSWER: Ashcan School [accept The Eight]

<Chonai>

14. One man of this name hailed from Landen, advised Chlotar II, and was known as “the Elder”. A king with this name was the husband of Bertrada of Laon. The first King of Aquitaine with this name was a son of Louis the Pious of France. Another king of this name put down a rebellion led by his half-brother Grifo and fought a battle in the Alps against Aistulf's Lombards. That man was bequeathed the office of (*) mayor of Neustria, Burgundy, and Provence before convincing Pope Zachary to depose his rival, the Merovingian king Childeric III. Most famously held by a son of Charles Martel and founder of the Carolingian dynasty, for 10 points, give this name held by a "short" king of France who fathered Charlemagne.

ANSWER: Pepin [or Pippin]

<Bentley>

15. In 2010, bread riots broke out in this country's city of Chimoio after a 30% hike in bread prices. This country's Moatize district, home to one of the world's largest coal mines, is part of its Tete Province, which is also home to the Cahora Bassa dam. The recent economic boom in this country has resulted partly from the liberalization of its ruling FRELIMO movement. Many of this country's exports leave through its port of (*) Beira. Massive flooding occurred in this country in 2000 on the Limpopo River, which, like the Zambezi, has its mouth in this country. Maputo is the capital of, for 10 points, what country that is the namesake of the channel separating Africa from Madagascar?

ANSWER: Mozambique [or Mocambique]

<Haddad-Fonda>

16. Sulfur-containing analogues of these compounds are particularly toxic in people with TPMT deficiency. Their synthesis of these compounds is inhibited by the chemotherapeutic cladribine and the immunosuppressant mycophenolate. The synthesis of these compounds requires GAR and AICAR transformylase, which have a folate cofactor. The salvage of these compounds requires the enzyme HGPRT, which is mutated in Lesch-Nyhan syndrome. Inosine and hypoxanthine fall into this (*) class of compounds. Uric acid is a common byproduct of their metabolism, which causes gout. These compounds contain a six-membered ring fused to a five-membered ring. For 10 points, name these heterocyclic compounds that include guanine and adenine, which along with pyrimidines make up DNA.

ANSWER: purines [prompt on "nucleotides" or "nucleosides" or "nitrogenous bases" or "bases"]

<Mukherjee>

17. A W.H. Auden essay about this author dubs the inability to consciously turn wishes into desires his namesake "disease". One of this man's characters left Des Moines after an incident involving Romola Martin and has unusually large hands. That character, who is attacked by a mob after stomping on Adore Loomis, competes for Faye Greener with a set painter who wants to paint *The Burning of (*) Los Angeles*. This creator of Homer Simpson and Tod Hackett also wrote a novel whose Christ-obsessed narrator is shot by Peter Doyle after spending most of the book being mocked by his editor Shrike and answering letters from "Desperate" and "Sick-of-it-all". For 10 points, name this author of *The Day of the Locust* and *Miss Lonelyhearts*.

ANSWER: Nathanael West [or Nathan von Wallenstein Weinstein]

<Carson>

18. A negative form of this phenomenon may occur when the Poynting vector dot the wavevector is negative. One quantity important in describing this phenomenon is squared in both the numerator and denominator of one side of the Lorentz-Lorenz equation. Ordinary and extraordinary rays are observed in anisotropic materials like calcite, in which the (*) "double" form of this phenomenon occurs. One law used to describe this phenomenon is derived using Fermat's principle of least time. The sines of the angles at which this phenomenon occurs are related by Snell's law to values of its namesake index, defined as speed of light in a vacuum divided by speed of light in a medium. For 10 points, name this phenomenon in which passing between two media causes a wave to bend.

ANSWER: refraction [accept birefringence due to ambiguities]

<Chen>

19. Interest in this country's classics was revitalized with a pseudonymous critic's book *Marginal Notes to the Classics*. Another writer from this country created a character who desires to commit suicide, but is told by the author himself that since he is fictional, he cannot. That author wrote of a physician who is jealous of his artist brother in his rendition of the Cain and Abel story. In an anonymous novel from this country, the protagonist steals (*) cheese from a mousetrap while serving a priest. The aforementioned critic Azorin coined the name of this country's Generation of '98, while it earlier saw the founding of the picaresque genre. For 10 points, name this home of Miguel de Unamuno and setting of *Lazarillo de Tormes*.

ANSWER: Kingdom of Spain [or Reino de Espana]

<Gupta>

20. The first complete recording of this work was made from 1933 to 1936 by Edwin Fischer. This work was the inspiration for Shostakovich's Opus 87. Beethoven's Piano Sonatas are often referred to as the "New Testament" and this work as the "Old Testament" of Classical keyboard music. Pieces in B-flat and C-sharp minor are the only two of their kind in this work that are five-voice rather than three- or four-voice. This work's opening (*) Prelude in C major was used by Charles Gounod as the basis for his *Ave Maria*. This piece purportedly derives its title from the advent of a tuning system that makes all keys playable. For 10 points, name this keyboard work by J.S. Bach that consists of two books of alternating preludes and fugues in all 24 keys.

ANSWER: *The* Well-Tempered Clavier [or *Das Wohltemperierte Klavier*]

<Lawrence>

21. This author wrote a short story based on a photograph of Julia Kristeva and other intellectuals in a Parisian cafe called "Labyrinth". He wrote a novella whose narrator meets the sinister Mr. Raef and Mr. Etah, who help him teach Marxism to his country's military dictator. A woman who hid in a university bathroom for several days after the Tlatelolco massacre appears in *Amulet* and is also one of the narrators of a novel by this man about Ulises Lima and (*) Arturo Belano, writers who consider themselves "visceral realists". Hundreds of murdered women appear in one section of another of his novels, which also describes the life of the German writer Benno von Archimboldi. For 10 points, name this author of *The Savage Detectives* and 2666.

ANSWER: Roberto **Bolaño** Avalos

<Bailey>

22. A type of this data structure used for storing two-dimensional data can come in a polygonal map variety. Data with multi-dimensional keys are sometimes stored using the k-d type of these objects. Another type of these data structures uses left-rotate and right-rotate to maintain balance following insertions and deletions and is named for the (*) two types of nodes allowed within it. These data structures are not arrays, but can be used to store heaps. Databases and file systems often use the "B" variety of these data structures. The top elements in these data structures are called roots, while the bottom elements are called leaves. For 10 points, name these data structures that come in a Binary Search variety.

ANSWER: **Trees** [accept more specific answers like **Binary Search Trees** or **Red Black Trees** or **B-Trees**]

<Bentley>

23. Laurie Mylroie championed a much-maligned theory that this action was organized by a foreign government. A trial after this event matched fragments of red paint to gas cylinders manufactured by the AGL Welding Company. Its major architect claimed membership in the "Liberation Army, Fifth Battalion" in a letter sent to local newspapers, and went on to plan the ambitious Bojinka Plot. One of its perpetrators was caught after returning to the (*) Ryder Agency to retrieve a security deposit on a rental van. It was carried out using a Ford F350 Econoline van driven into a parking garage, and was orchestrated by Ramzi Yousef with backing from Khaled Sheikh Mohammad. For 10 points, name this 1993 attack on a pair of New York City buildings that were also targeted eight years later.

ANSWER: First **World Trade Center** Bombings [or Attack on the **World Trade Center**; do not accept anything involving "September 11th"]

<Bentley>

24. This procedure uses a device containing a Peltier sensor in order to maintain the temperature of the sample. An "overlap" version of this procedure is used to join two halves of a construct via a linker, and this procedure is also the main step of site-directed mutagenesis. An antibody to the main reagent of this procedure is added to the buffer in its "hot-start" variant. DMSO is used in this procedure to work with (*) GC-rich templates. The buffer in this procedure contains magnesium. A protein from *Thermus aquaticus* is commonly used in this procedure; that protein has evolved to survive in hot springs, and is called Taq polymerase. For 10 points, name this procedure used to amplify segments of DNA, invented by Kary Mullis.

ANSWER: **PCR** [or **polymerase chain reaction**]

<Mukherjee>

1. Their partially filled *d* subshells make them particularly reactive to complexation. For 10 points each:

[10] Name these metals, which include iron and palladium.

ANSWER: **transition** metals

[10] A ligand splits the *d* orbitals of an octahedral transition metal complex into two sets according to this theory, which was used to explain the color of coordination complexes.

ANSWER: **crystal field** theory [or **CFT**; accept **ligand field** theory or **LFT**]

[10] Ligands are arranged by their ability to split *d*-orbitals in this series, which begins with I-minus and ends with carbon monoxide.

ANSWER: **spectrochemical** series

<Mukherjee>

2. This book emphasized the importance of personal choice in mental health, and its first section outlined the author's progression from shock to apathy to depersonalization. For 10 points each:

[10] Name this book that introduced an intuitive psychological method for determining life's purpose, called logotherapy.

ANSWER: **Man's Search for Meaning** [or ...**trotzdem Ja zum Leben sagen: Ein Psychologe erlebt das Konzentrationslager**; or **From Death-Camp to Existentialism**]

[10] This psychologist and concentration camp survivor wrote *Man's Search for Meaning*.

ANSWER: Viktor **Frankl**

[10] A far more empirical form of psychotherapy is this method based on the work of Aaron Beck and Albert Ellis. This method combines gradual exposure to uncomfortable situations with the modification of entrenched thought pattern

ANSWER: **cognitive-behavioral** therapy [or **CBT**; prompt on **behavioral** or **cognitive** therapy]

<Spencer>

3. Answer these questions about gods of and in the Nile river, for 10 points each.

[10] This yearly process was governed by the blue-skinned god Hapi. This multi-week process defined the planting season of the Egyptian calendar until 1970, when human activity ended it.

ANSWER: annual seasonal **flooding** of the Nile River

[10] This creature's head was given to Sobek, a god who protected travelers on the Nile. The heart-devouring creature Ammit, who sits next to the divine scales, has this creature's head.

ANSWER: **crocodiles** [do not accept "alligator"]

[10] This ram-headed god sat at the source of the Nile and created babies using a potter's wheel.

ANSWER: **Khnum**

<Jackson>

4. One type of these sensors contain a tipping bucket. For 10 points each:

[10] Name this scientific device. The NWS "standard" one consists of a funnel, an overflow can, a tube, and a measuring stick.

ANSWER: **rain gauge**

[10] Hydrometers are used to measure this property of air, which is given by the ratio of the actual vapor density to the saturation vapor density.

ANSWER: relative **humidity**

[10] Weather Balloons usually have one of these instrument packages suspended below them. They communicate their readings using a method for which they are named.

ANSWER: **radiosonde**

<Butler>

5. This woman collaborated with Jay Westbrook and Teresa Sullivan on works like *As We Forgive Our Debtors* and *The Fragile Middle Class*. For 10 points each:

[10] Identify this politician, whose opponents have sometimes used tomahawk chops to mock her claims of Indian heritage.

ANSWER: Elizabeth **Warren**

[10] In 2012, Elizabeth Warren defeated Scott Brown to win a Senate seat in this state.

ANSWER: **Massachusetts**

[10] After Warren was denied the chance to lead the Consumer Financial Protection Bureau, whose creation she had championed, Barack Obama instead appointed this former attorney general of Ohio. The recess appointment of this man to lead the CFPB was particularly controversial because it occurred when the Senate was not in recess.

ANSWER: Richard **Cordray**

<Bentley>

6. In this work, the singer describes the pain of the loss of his love like a knife in his breast in "Ich hab' ein glühend Messer". For 10 points each:

[10] Name this song cycle for vocalist and orchestra, whose second movement, "Ging heut Morgen übers Feld", contains a refrain asking "Is it not a lovely world?", and was recycled in the opening of the composer's first symphony, in D.

ANSWER: ***Songs of a Wayfarer*** [or ***Lieder eines fahrenden Gesellen***; or ***Songs of a Wanderer***]

[10] *Songs of a Wayfarer* is an early work by this Bohemian-Austrian composer who used gigantic orchestras in massive symphonies like his eighth, which is known as the "Symphony of a Thousand."

ANSWER: Gustav **Mahler**

[10] This Mahler symphony opens with a funeral march in C minor and includes a solo for mezzo-soprano in its "Urlicht" movement. It takes its nickname from its setting of the namesake poem by Friedrich Klopstock in its fifth movement.

ANSWER: Symphony No. **2** in C minor, "**Resurrection**" [accept either the number or the nickname; or or *Die Auferstehung*]

<Rosenberg>

7. In one of this man's poems, he quips "If you think Acerra reeks of yesterday's wine, you are mistaken. He invariably drinks till morning". For 10 points each:

[10] Identify this Roman poet of twelve books of *Epigrams*, which include several devoted to Emperor Domitian.

ANSWER: **Martial** [or Marcus Valerius **Martialis**]

[10] Martial's epigrams fall into this literary genre, also the primary output of Martial's contemporary Juvenal. Works in this genre generally use irony and sarcasm to parody life's various mores.

ANSWER: **satires** [accept **satirical** or other word forms]

[10] Another of Martial's contemporaries was this Roman author, who was unable to complete his epic poem about the civil war between Pompey the Great and Julius Caesar, the *Pharsalia*.

ANSWER: **Lucan** [or Marcus Annaeus **Lucanus**]

<Bentley>

8. The Baths of Neptune at this place were constructed by Emperor Hadrian, and Claudius attempted to build a canal here that would have supplanted Puteoli. For 10 points each:

[10] Identify this port, an important entry point for grain from the Roman colonies.

ANSWER: **Ostia** [or **Ostia** Lido or **Lido di Roma** or Lido di **Ostia**]

[10] Ostia sits on the mouth of this river, into which the corpse of Pope Formosus was flung after he was dug up and tried in the Cadaver Synod. It runs through Rome.

ANSWER: **Tiber** River

[10] This man erected new walls around Ostia after forces under his rival pillaged the port. While serving under that rival in Numidia, he personally captured Jugurtha.

ANSWER: **Sulla** [or Lucius Cornelius **Sulla** Felix]

<Bentley>

9. Slawomir (SWAV-oh-meer) Mrozek, Alejandro Jodorowski, and Arthur Adamov are generally included as members of this literary movement, whose name was coined a 1960 Martin Esslin essay which related its namesake concept to an idea presented in Camus's *The Myth of Sisyphus*. For 10 points each:

[10] Name this dramaturgical movement in European literature which produced plays portraying the breakdown of communication in the face of the meaninglessness of life.

ANSWER: the Theater of the **Absurd** [or **absurdism**]

[10] *The Memorandum*, *The Increased Difficulty of Concentration*, and *The Garden Party* are among the absurdist plays by this playwright, also the first president of the Czech Republic.

ANSWER: Vaclav **Havel**

[10] This Swiss absurdist wrote about Claire Zachanassian's arrival in the town of Gullen in *The Visit*. Two asylum inmates believe themselves to be Newton and Einstein in his play *The Physicists*.

ANSWER: Friedrich **Dürrenmatt**

<Gupta>

10. Lieutenant Colonel William Bull first discovered this rebellion. For 10 points each:

[10] Name this 1739 slave rebellion that was led by Jemmy. It ended near the Edisto River.

ANSWER: **Stono** Rebellion

[10] The Stono Rebellion occurred in what would become this state. Later, Denmark Vesey led a failed slave insurrection in this state's city of Charleston.

ANSWER: **South Carolina**

[10] Jemmy was known by this nickname. Thomas Gordon and John Trenchard published a series of letters under this pseudonym, which was also adopted by an anti-Federalist who may have been George Clinton.

ANSWER: **Cato**

<Hothem>

11. This force is multiplied by the coefficient of friction to calculate the frictional force. For 10 points each:

[10] Name this force, which typically balances out the gravitational force on an object.

ANSWER: **Normal** force

[10] The forces experienced by an object can be explored through these drawings, which show all the forces, with their directions, that act on an object.

ANSWER: **free body** diagrams [prompt on **force** diagrams]

[10] On a frictionless banked curve, the free-body diagram will tell you that the velocity is equal to the square root of quantity r times g times this function of the angle.

ANSWER: **tangent** of theta

<Nutter>

12. During this celebration, children often receive red envelopes with coins in them, and many extended families reunite to eat round *jiaozi* dumplings at its start.. For 10 points each:

[10] Name this traditional lunar holiday which is very similar to Vietnam's Tet celebration. In 2013, it shifted the reigning zodiac sign from Dragon to Snake.

ANSWER: **Chinese New Year** [or **Lunar New Year**; or **Spring Festival**; or **Nian Jie**; or Da **Nian Chuyi**]

[10] The fifteenth day of a new Chinese year is a festival centered on these objects, which are often made of round red paper.

ANSWER: **lanterns**

[10] This action is done in one's house on Chinese New Year's eve; it is traditionally forbidden during the next few days. During the Qingming festival, which the Chinese government recently un-banned, this act is done at the tombs of one's ancestors.

ANSWER: **sweeping** the floor [accept **cleaning**]

<Jackson>

13. The unique voice found in early examples of these works, especially the one written by Olaudah Equiano, was classified by one critic as the "trope of the Talking Book". For 10 points each:

[10] Identify this literary genre, many more examples of which were written in the early nineteenth century. In one of the most famous ones, Frederick Douglass described working as a field hand for Mr. Covey.

ANSWER: **slave narratives** [accept equivalents like "autobiographies by slaves"; prompt on partial answers or things like "autobiographies" or "memoirs" or "works by slaves"; do not accept "captivity narratives"]

[10] Nathaniel Parker Willis was fictionalized as "Mr. Bruce" in *Incidents in the Life of a Slave Girl*, a narrative written under the pseudonym "Linda Brent" by this woman, who was employed at Willis's home Idlewild while writing it.

ANSWER: Harriet Ann **Jacobs**

[10] Two notable slave narratives were written by men with this surname, one of whom was also the author of the novel *Clotel* and one of whom mailed himself to Philadelphia in a wooden crate.

ANSWER: **Brown** [accept William Wells **Brown** or Henry "Box" **Brown**]

<Carson>

14. Imix and Ajaw are two units in a round of these devices called the *tzolk'in*. For 10 points each:

[10] Identify these devices, which also include the *haab* and the Long Count, erroneously declared by the gullible to end in 2012.

ANSWER: Mayan **calendars** [or Mesoamerican **calendars**]

[10] This second month in the French Republican calendar lends its name to a 1799 coup in which Napoleon replaced the French Directory with the Consulate.

ANSWER: **Brumaire** [or coup of 18 **Brumaire**]

[10] This important date in the pre-Hijra Islamic calendar, roughly equal to 570 CE, denotes the year Muhammad was born. Its name derives from an incident in which one of Abraha of Aksum's shock troops named Mahmud refused to attack Mecca.

ANSWER: The Year of the **Elephant** [or 'Am al-**Fil**]

<Bentley>

15. This novel's second section follows the detective Jacques Moran, who is sent by his boss Youdi to track down the title character. For 10 points each:

[10] Name this experimental novel, the first in a trilogy, which is broken into two inner monologues. Its title character takes an aimless journey on his bicycle to find his mother in a single paragraph lasting over a hundred pages.

ANSWER: **Molloy**

[10] This Irish author's novel *Molloy* is the first part of a trilogy also including *Malone Dies* and *The Unnamable*. He also wrote the play *Waiting for Godot*.

ANSWER: Samuel Barclay **Beckett**

[10] Beckett wrote this one-act play in which the aging title character records himself on a spool on his sixty-ninth birthday and eats three bananas even though he admits they give him bowel trouble.

ANSWER: **Krapp's Last Tape**

<Gioia>

16. Only about 34 paintings, including *The Allegory of Painting*, can be attributed to this man with reasonable certainty. For 10 points each:

[10] Name this Golden Age Dutch painter of *View of Delft* and *Girl with a Pearl Earring*.

ANSWER: Johannes **Vermeer** [or Jan **Vermeer**]

[10] Vermeer originally included a basket of dirty laundry in the corner of this painting, which shows a girl in yellow and blue pouring liquid into an earthenware container on a table covered in bread.

ANSWER: *The* **Milkmaid** [or *The* **Kitchen-Maid**; or *De* **Melkmeid**; or *Het* **Melkmeisje**]

[10] Another center of the Dutch Golden Age was this city, where Gerrit Dou and his associates formed the group known as this city's "fijnschilders" or "fine-painters," whose works are marked by extreme attention to reproducing nature. This city was also the birthplace of Rembrandt.

ANSWER: **Leiden**

<Rosenberg>

17. Answer these questions about philosophical logic, for 10 points each.

[10] This is the number of premises that lead to a conclusion in an Aristotelian syllogism. It is also the number of distinct truth-values in classical logic.

ANSWER: **two**

[10] Kant disputed the ontological argument by claiming this property is not a predicate. In modern logic, it is a quantifier like the universal quantifier and is symbolized by a backwards E.

ANSWER: **existence** [or "**there exists**"; or **existential** quantifier]

[10] A philosophical argument has this property if its premises all follow and those premises are all true. It is distinct from validity, which does not require all premises to be true.

ANSWER: argumentative **soundness**

<Jackson>

18. This man launched a satirical response to Tobias Smollett's *Briton* titled *North Briton*. For 10 points each:

[10] Identify this MP from Middlesex whose name was often paired with "Liberty." His support of the American cause led to a Pennsylvania town being co-named for him and Isaac Barré.

ANSWER: John **Wilkes**

[10] Wilkes' *North Briton* was highly critical of the government of Lord Bute. One particular criticism was Bute's agreement to the 1763 Treaty of Paris, which ended this conflict known in the Americas as the French and Indian War.

ANSWER: **Seven Years' War** [prompt on "French and Indian War"]

[10] Wilkes controversially ordered troops defending the Bank of England to fire on rioters during these 1780 riots. The namesake of these riots attempted to repeal the Catholic Relief Acts.

ANSWER: **Gordon** Riots

<Bentley>

19. Cells in this phase are G banded using Geimsa staining. For 10 points each:

[10] Name this phase of mitosis that occurs after prophase and before anaphase, in which condensed chromosomes line up in the midline.

ANSWER: **metaphase**

[10] This structure, which consists of a series of microtubules connecting the kinetochores of each chromosome to the centrosomes, is formed during metaphase.

ANSWER: mitotic **spindle** [or **spindle apparatus**]

[10] Cancer cells are frozen in metaphase and karyotyped in order to find translocations. This 9 to 22 translocation is often found in chronic myelogenous leukemia and is named for the city of its discovery.

ANSWER: **Philadelphia** chromosome

<Mukherjee>

20. In this opera's third act, Giulietta seduces the protagonist in order to steal his reflection, after singing the Barcarolle "*Belle nuit, o nuit d'amour*". For 10 points each:

[10] Name this unfinished opera, in which the protagonist is accompanied by his friend Nicklausse, and falls in love with the mechanical doll, Olympia.

ANSWER: *The **Tales of Hoffmann*** [or *Les **contes d'Hoffmann***]

[10] *The Tales of Hoffmann* is by this French composer of *Orpheus in the Underworld*, which features his famous "Galop Infernal" or "Can-Can".

ANSWER: Jacques **Offenbach**

[10] In the second act of *The Tales of Hoffmann*, Dr. Miracle causes the death of Antonia by encouraging her to perform this action.

ANSWER: **singing** (herself to death)

<Morlan>

21. Its definite form is used to find the area under a function. For 10 points each:

[10] Name this mathematical operation, the indefinite form of which returns the antiderivative of a function.

ANSWER: **integration** [or word forms, or answers like taking the **integral**]

[10] To integrate functions that are a quotient of polynomials, one typically uses this method of writing the function as a sum of rational functions with unknown coefficients to reduce the degree. It is also used in Laplace transforms.

ANSWER: **partial fractions**

[10] This theorem states that it is frequently possible to express a double integral as two iterated integrals. Applying it allows one to change the order of integration in multiple integrals.

ANSWER: **Fubini's** theorem

<Nutter>

22. This author's travel writings about Italy were collected in *Sketches of Etruscan Places*. For 10 points each:

[10] Name this English author who wrote about a boy with the ability to predict race winners in "The Rocking Horse Winner." He also wrote about Paul Morel and his slavish relationship to his mother, Gertrude.

ANSWER: David Herbert **Lawrence**

[10] Lawrence wrote a controversial novel about this upper-class woman who begins an affair with Oliver Mellors, her gamekeeper and titular "lover".

ANSWER: Lady **Chatterley** [or **Constance** Chatterley; or Constance **Reid**]

[10] This female character never appears in *Lady Chatterley's Lover*. She is the estranged wife of Oliver Mellors and shares her first name with a literary character who is cared for by Grace Poole.

ANSWER: **Bertha** Coutts [or Bertha **Coutts**; do not accept "Bertha Mason"]

<Cheyne>

23. This man's father was the patriarch, Philaret, and he signed the Treaty of Stolbovo with Sweden in 1617. For 10 points each:

[10] Identify this ruler who was elected by a zemsky sobor in 1613, founding a ruling house.

ANSWER: **Michael** I [or **Mikhail** I or **Mikhail** Fyodorovich Romanov]

[10] Michael was the first member of this Russian dynasty to rule as tsar. This dynasty ruled Russian until the February Revolution.

ANSWER: House of **Romanov** [or House of Holstein-Gottorp-**Romanov**]

[10] An earlier conflict between Russia and Sweden was named for this region along the Baltic Sea. The namesake war in this region saw the defeat of its Order of the Brothers of the Sword and included participants like Stephen Bathory, the future king of Poland.

ANSWER: Old **Livonia** [or **Livland**]

<Bentley>