

1. In 1975, this country made divorce easier and legalized abortion with the Veil Law, a few years before its anti-immigration Pasqua laws. A Turkish consulate in this nation was seized by the Armenian ASALA organization. In 1983, researchers in this non-America country were the first to isolate HIV. Eight protestors were crushed to death in this European country's capital in a 1962 protest against the OAS, which launched a coup in one of its (*) colonies. With England, it developed a pioneering supersonic airplane called the Concorde. Ahmed Ben Bella's FLN signed the Evian Accords with this country. For 10 points, name this European nation, in which unrest over the Algerian war of independence fed into the transition between the Fourth and Fifth Republics.

ANSWER: **France** [or **French Republic**; or **Republique francaise**]

<Bentley>

2. In this author's first novel to be set in the United States, Gregory Reeves fights in the Vietnam War after growing up in a Los Angeles barrio. The protagonist of another novel by this author befriends a transsexual actress who adopts the name "Mimi" and occasionally hooks up with the guerrilla leader Huberto Naranjo before committing to the photojournalist (*) Rolf Carle. This author of *The Infinite Plan* is best known for a novel in which the green-haired Rosa the Beautiful dies after drinking poisoned brandy. In that novel by this author, Clara breaks her nine-year silence to declare that she will marry Esteban Trueba. For 10 points, name this female Chilean author of *Eva Luna* and *The House of the Spirits*.

ANSWER: Isabel **Allende** Llona

<Bentley>

3. This woman's first husband was a grandson of Tantalus who was also named Tantalus. This woman persuaded her husband to walk into his palace on an extravagant purple carpet. This mother of Chrysothemis wrote a letter to her husband asking him to light a (*) fire on Mt. Ida so that she would be aware when he returned. Odysseus tricked her into thinking that her daughter was to marry Achilles, but in actuality, that daughter, Iphigenia, was to be sacrificed at Aulis. This woman killed one of her victims by tossing a net over him before he was stabbed twice with a sword; she thus killed her husband with the assistance of her lover Aegisthus. For 10 points, name this wife of Agamemnon.

ANSWER: **Clytemnestra** [or **Klytaemnestra**]

<Jose>

4. This work notes that a certain commodity will be most prevalent in March, due to its proximity to Lent, and suggests a way to make gloves for ladies and boots for gentlemen. It ends with the author noting that he has no ulterior motive, due to the advanced age of his wife. The author of this work opposes "voluntary (*) Abortions" and the "horrid practice of Women murdering their Bastard Children." This essay opens by noting how terrible it is to see a female beggar with three, four, or six kids in tow, and outlines a scheme by which population would be lessened and a new dish created. For 10 points, name this satirical essay by Jonathan Swift, which suggests that poor people should sell their children to be eaten by the rich.

ANSWER: "A **Modest Proposal**" [or "A **Modest Proposal** for Preventing the Children of the Poor From Being a Burthen to Their Parents or Country, and for Making Them Beneficial to the Publick"]

<Schindler>

5. **This place is home to the Hoover Institution, whose fellows include Gary Becker and Chicago professor Milton Friedman. The developer of mental self-efficacy and social cognitive theory is also based here. One experiment conducted in this place home to Albert Bandura was examined in the book *The Lucifer Effect*, written by that test's organizer and "Supervisor". That experiment was ended after Christina Maslach objected to the (*) treatment of subjects from this place by other participants with "situational power". That experiment in this place divided students into "guards" and "prisoners". For 10 points, name this university in Palo Alto, California where Alfred Binet developed an IQ test and Phillip Zimbardo conducted an aborted "prison experiment".**

ANSWER: Stanford University [or Leland Stanford Junior University; prompt on "California" until mentioned]

<Spencer>

6. **This man signed a thirty percent increase in the minimum wage which took effect on May 1, 2014, to try to combat inflation which has caused most airlines to stop servicing his country. In April 2014, this man announced that the "blood moon" was turning red as a sign of heavenly support for socialism, and that his predecessor had been reincarnated as a bird who speaks to him. He won election after a (*) 2013 campaign in which his own intimations about his opponent's Jewish ancestry were countered with allegations that this onetime bus driver is incapable of running the government, which has since cracked down on protestors. For 10 points, name this embattled PSUV head who succeeded Hugo Chavez as president of Venezuela.**

ANSWER: Nicholas Maduro

<Weiner>

7. **It's not Chicago, but a building in this city used a technique called "walking the columns" to support its curving floor slabs and facade. That building will soon be surpassed as the tallest residential building on its continent by Christian de Portzamparc's One57. This home of Frank Gehry's 8 Spruce Street is also home to a building whose Nirosta-clad crown features seven terraced arches; that William (*) van Alen building also features ornamentation resembling radiator caps. David Childs reworked a contest-winning design by Daniel Libeskind for a building in this city which stands 1,776 feet tall and features the *America's Response Monument* at its base. For 10 points, name this city, home to both the Chrysler Building and One World Trade Center.**

ANSWER: New York City [or NYC]

<Karas>

8. **Franklin Gowen tried several workers in this capacity who sent "coffin notices" to their victims. In *Up from Slavery*, Booker T. Washington describes his post-emancipation "boyhood days" in this industry, whose more recent titans include Don Blankenship. James McParland went undercover in this industry, whose workers were killed by National Guardsmen in the Ludlow massacre. The (*) Pinkertons suppressed a largely Irish society of workers in this industry called the Molly Maguires. As part of the "Square Deal," Theodore Roosevelt helped suspend a 1902 strike in this industry in Pennsylvania. For 10 points, name this industry whose products include anthracite, and whose workers often contract black lung disease.**

ANSWER: coal mining industry [accept anthracite mining until "anthracite" is read; prompt on "mining"]

<Jackson>

9. Mutations in an enzyme which oxidizes this substrate are the basis of the McDonald-Kreitman test. A Cys-46, Cys-174, His-67, and a critical zinc ion surround it in the active site of a protein which oxidizes this compound. This compound precipitates DNA from aqueous solution. Biosynthesis of this compound and carbon dioxide increase in the absence of oxygen according to the Pasteur effect. Like (*) lactate, synthesis of this compound regenerates NAD in the cytosol. A 70% solution of this compound is used in molecular biology labs to kill microbes. The oxidation of this compound into acetaldehyde is often faster in Han Chinese and Korean populations, causing the "Asian glow" phenomenon. For 10 points, name this compound, which yeast form in fermentation.

ANSWER: ethanol [or ethyl alcohol]

<Mukherjee>

10. This quantity divided by lambda yields k, the wavenumber. For a wire-wrapped toroid, the magnetic field is inversely proportional to this factor times the radius of the toroid according to Ampère's law, which also gives the magnetic field of an infinite wire as inversely proportional to this factor times radial distance. This entire quantity, all squared, over big G times stellar mass is equal to the square of the planetary orbital period over the cube the semimajor axis of its orbit according to Kepler's third law. Twice this value appears multiplied by the permittivity of free space in the denominator of (*) Coulomb's law. For small angles, the period of a pendulum is equal to this quantity times the square root of length over gravitational acceleration. Frequency multiplied by this quantity gives angular frequency. For 10 points, identify this value that is the period of the sine and cosine functions.

ANSWER: two pi

<Voight>

11. In Book VI of Plato's *Republic*, this concept is analogized to rays from a sun which represents the form of the Good. According to Tarski's "semantic" theory of this concept, it can only be identified in a language L using a "meta-language". This was the second of three title concepts in a British work of logical empiricism by A. J. Ayer. Coherentists reject the (*) correspondence theory of this concept. Tests for deductive validity assume that all premises have this property. Wittgenstein developed a diagram showing outputs of this property and its opposite after applying logical operators, called its namesake "tables." For 10 points, name this property of all tautologies and of those statements in classical logic which are not false.

ANSWER: truth [or word forms, such as true; do not accept "truth value"]

<Jackson>

12. One of these people was left behind while searching for a lost necklace and accused of sexual misconduct with Safwan, who rescued her. Another of these people was a forty-year-old merchant whom Maisarah told of the business acumen of her 25-year-old cousin. The most favored of these people retaliated against men who failed to find (*) Uthman's murderer, leading to the Battle of the Camel, and consummated her relationship at age nine. The first of these people was also the first convert to Islam. For 10 points, Khadija and Aisha belonged to what group of consorts to the last prophet of Islam?

ANSWER: wives of Muhammad [or consorts of Muhammad; or equivalents]

<Bollinger>

13. This country is the setting of a novel whose unnamed protagonist has a romantic encounter with a woman he gives the mythical name Ylajali; that protagonist nearly eats a pencil out of desperation but refuses a free breakfast from the city because he does not want to reveal his poverty. Another novel set in this country is about a woman who later dies of the plague after breaking off an engagement with Simon Darre to elope with (*) Erlend Nikuasson. The novel *Hunger* is set in this country, as are *The Wreath*, *The Wife*, and *The Cross*, which make up the *Kristin Lavransdatter* trilogy. For 10 points, name this home country of Knut Hamsun and Sigrid Undset, as well as the author of *Peer Gynt*, Henrik Ibsen.

ANSWER: Kingdom of Norway [or Kongeriket Norge; or Kongeriket Noreg]

<Mehigan>

14. In a short story by this author, Alida Slade reveals that she had written a fake letter from Delphin to Grace Ansley inviting the latter to a rendezvous at the Colosseum in an attempt to get her sick with malaria. In a novel by this author, Fanny Beaufort's fiancé Dallas visits Paris to meet with his father's former lover. In another novel by this author of (*) "Roman Fever", a debt to Gus Trenor and the schemes of Bertha Dorset ruin the social standing of the object of Lawrence Selden's love, Lily Bart. In another novel by this woman, May Welland reveals her pregnancy in order to prevent Newland Archer from running away to Europe with Ellen Olenska. For 10 points, name this author of *The House of Mirth* and *The Age of Innocence*.

ANSWER: Edith Wharton [or Edith Newbold Jones]

<Mehigan>

15. A director of this organization died on Marble Island in 1721. Samuel Hearne built Cumberland House for this organization. Via the Deed of Surrender, this organization gave up almost all of its land holdings for three hundred thousand pounds. Allies of this institution under Robert Semple were slain by Cuthbert Grant at the Seven Oaks Massacre. This organization used colored stripes to indicate size and value on its namesake woolen (*) "point blankets". This institution was given title over Prince Rupert's Land. Guillaume Sayer, a Métis, violated a monopoly held by this organization. For 10 points, name this rival of the North West Company in the fur trading business, a Canadian company named for a large body of water.

ANSWER: Hudson's Bay Company [or HBC; or The Bay; or La Baie; or Compagnie de la Baie d'Hudson; do not accept "Hudson Bay Company"]

<Bentley>

16. A man in blackface plays a banjo while another catches a fish in a parody of this painting by Robert Colescott featuring an African American hero. The original was painted in Düsseldorf after its artist received a commission from Montgomery Meigs in the late 1840s. Edward Hand is depicted holding his hat in this painting. This most famous painting by the artist of (*) *Westward Ho!* appears behind a trio of dour old women who may be crossdressers in Grant Wood's *Daughters of Revolution*. A soldier holds an anachronistic flag next to the central figure of this painting, while others try to navigate an icy river. For 10 points, name this Emanuel Leutze painting of an American Founding Father on his way to the Battle of Trenton.

ANSWER: Washington Crossing the Delaware [accept George Washington Carver Crossing the Delaware: Page From an American History Textbook before "parody" is read]

<Bentley>

17. A since-discredited hypothesis of Archie Carr used this theory to explain the migration of the green sea turtle from Brazil to Ascension Island. The concentration of the *Megascolecidae* family of earthworms was used to support this theory. The major animal fossils that were analyzed to support this theory belonged to *Mesosaurus*, *Cynognathus*, and *Lystrosaurus*. An early supporter of this theory, Alexander du Toit, presented evidence for it based on the (*) distribution of tillite overlaid by coal beds overlaid by basaltic flows. Those coal beds often contained *Glossopteris* fossils, which had extremely large seeds - preventing their dispersal by sea or air. This theory was built on to develop plate tectonics. For 10 points, identify this theory proposed by Alfred Wegener in which the Earth's continents move relative to each other.

ANSWER: continental drift [or plate tectonics until it is read; or obvious equivalents, such as the fact that continents move until "continents move relative to each other" is read]

<Voight>

18. This political party's "Fantastic Four" were candidates who engaged in its first televised presidential debate. This party's immediate precursor was headed by a man who presided over the *maximato*. One leader from this party presided over a financial crisis partly caused by the use of "Tesobonos" debt relief and the uprising of the EZLN; that "December mistake" marred the term of (*) Ernesto Zedillo. This party nationalized its country's oil industry during the Depression, lost to a candidate who always wore black cowboy boots, named Vicente Fox, in the 2000 presidential election, and presided over the signing of NAFTA. For 10 points, name this party opposed by the PAN, which dominated 20th-century Mexico.

ANSWER: PRI [or Institutional Revolutionary Party; or Partido Revolucionario Institucional]

<Mukherjee>

19. The Tang-Toennies model provides a damping function for this interaction. The original derived potential of this interaction includes a term for negative three-halves times the geometric mean of two ionization energies. The potential energy of this interaction is proportional to distance raised to the negative sixth power and is negative in the Lennard-Jones potential. Its strength is roughly proportional to the (*) polarizability. This interaction explains why bromine is liquid at room temperature but chlorine is a gas, because it is stronger for compounds with larger electron clouds. For 10 points, name this interaction which forms due to induced dipoles in uncharged compounds, a class of van der Waals forces.

ANSWER: London dispersion forces [or London dispersion forces; prompt on van der Waals forces before it is read]

<Silverman>

20. Alexander Scriabin's piano sonata of this number is in F-sharp minor, and he once called that piece the "Gothic" but later subtitled it "States of the Soul". Arnold Schoenberg's opus 11 consists of this many pieces, which are often called his first consistently atonal works. August Wilhelmj adapted a movement of J.S. Bach's Orchestral Suite of this number into "Air on the G String".

Rachmaninov's piano concerto of this number is in D minor, and the key of (*) E-flat major has this many flats. A symphony of this number reused a theme from its composer's ballet *The Creatures of Prometheus* and ended up being dedicated to "the memory of a Great man", rather than to Napoleon. For 10 points, give the number of Beethoven's *Eroica* symphony.

ANSWER: three [or drei; or word forms]

<Rosenberg>

21. This author's friendship with Katherine Anne Porter led to his acquisition of material from which he, like Edgar Allan Poe, adapted the story of the Kentucky Tragedy. In a novel by this man, he tells of Jeremiah Beauchamp's love for Rachel Jordan and subsequent murder of Cassius Fort. With Cleanth Brooks, this author of *World Enough and Time* wrote the textbook (*) *Understanding Poetry* and founded *The Southern Review*. At the end of a novel in which this man describes "the Great Twitch", Adam shoots "the Boss" after Anne Stanton's affair is revealed. For 10 points, name this author who used reporter Jack Burden to narrate the story of Louisiana governor Willie Stark in *All the King's Men*.

ANSWER: Robert Penn Warren

<Mehigan>

22. A Viceregent in Spirituals with this last name surveyed soon-to-be-seized church lands in the *Valor Ecclesiasticus*. Manasseh ben Israel convinced a man with this surname to let Jews back into England. A rival of Stephen Gardiner with this surname became chief minister after Cardinal Wolsey's death and engineered the dissolution of the monasteries. A later man with this surname presided, with his son-in-law Henry (*) Ireton, over an argument with radicals at the Putney Debates. That man with this surname dissolved the Rump Parliament and beat Prince Rupert of the Rhine at Naseby in 1644. For 10 points, give this surname shared by a Protestant adviser of Henry VIII and the Lord Protector who ruled after the English Civil War.

ANSWER: Cromwell [accept Thomas Cromwell; accept Oliver Cromwell]

<Bentley>

23. This structure contains the only cells that produce orexin. A group of cells in this organ fail to migrate in Kallman's syndrome. A type of amenorrhea induced by excessive exercise is named for this structure. CART, Agouti-Related Peptide, and NPY are synthesized by a group of cells in this structure which are activated by ghrelin, are inhibited by leptin, and localize to the (*) arcuate nucleus. The magnocellular cells in this organ's paraventricular nucleus synthesize oxytocin and vasopressin, while other signaling factors synthesized here are secreted into the hypophyseal portal system in order to trigger the release of hormones from the pituitary. For 10 points, name this master neuroendocrine regulatory organ found near the bottom of the brain.

ANSWER: hypothalamus

<Mukherjee>

24. Influence from a namesake German academy led 19th-century Academic realists from this country to form the Munich School. An allegorical depiction of this modern-day country kneels on a stone from which the arm of a dead man extends in an 1826 painting. Antoine-Jean Gros dubbed a painting set in this country "the massacre of painting". In this modern-day country, the (*) Black-Figure style was largely replaced by the Red-Figure style for painting *kylikes*. This country is depicted *Expiring on the Ruins of Missolonghi* in a painting by an artist who showed its citizens being raped and sold into slavery by turban-wearing horsemen in *The Massacre at Chios*. For 10 points, name this country home to such classical painters as Zeuxis and Apelles.

ANSWER: Greece [or the Hellenic Republic or Hellas]

<Bentley>

1. At this point, the partial derivative and the second partial derivative of pressure with respect to volume equals zero. For 10 points each:

[10] Name this point which is located at the apex of the "saturation dome" on a PV diagram. Reduced temperature equals the system's temperature divided by the temperature of this point.

ANSWER: **critical** point

[10] Beyond the critical point, the enthalpy of this phase transition goes to 0, because it is no longer possible to distinguish between liquid and gas.

ANSWER: **vaporization** [prompt on **evaporation**; prompt on **boiling**]

[10] This class of equations of state will have three solutions when the temperature is less than the critical point, but only one solution above the critical point. The van der Waals and Redlich-Kwong equations of state have this functional form.

ANSWER: **cubic** equations of state

<Silverman>

2. This man angered Abraham Lincoln by issuing martial law and emancipating the slaves of Missouri in 1861. For 10 points each:

[10] Name this man, known as "The Pathfinder" for his success on expeditions out west with Kit Carson. He helped wrest the Bear Flag Republic from Mexican control.

ANSWER: John Charles **Fremont**

[10] Fremont was first ever presidential candidate for this party, which grew rapidly as Conscience Whigs and other opponents of the Kansas-Nebraska Act joined it.

ANSWER: **Republican** Party [prompt on "GOP" or "Grand Old Party"]

[10] This Missouri senator and author of the first Homestead Act served as a mentor and father-in-law to Fremont. His grand-nephew and namesake painted murals about Missouri history.

ANSWER: Thomas Hart **Benton**

<Bentley>

3. This man, who ordered the assassination of Venezuelan President Rómulo Betancourt, was himself shot in his blue Chevrolet in 1961. For 10 points each,

[10] Name this Caribbean dictator who had the dissident Mirabal sisters killed and had his nation's highest mountain, Pico Duarte, renamed after him.

ANSWER: Rafael Leónidas **Trujillo** Molina

[10] Rafael Trujillo led this nation, in which he ordered the 1937 massacre of migrants coming over from the border with Haiti.

ANSWER: **Dominican Republic** [or **República Dominicana**; prompt on "D.R."; do not accept "Dominica"]

[10] Allegedly, Trujillo's men held up this plant and asked Haitian immigrants to name it, killing them if they could not trill the "r" in its Spanish name. English or Spanish name acceptable.

ANSWER: '**parsley**' [or **perejil**; accept **Parsley** Massacre; do not kill anyone if they mispronounce the r]

<Karas>

4. Answer the following about the keyboard music of Johann Sebastian Bach, for 10 points each:

[10] Bach likely played much of his own keyboard music, like the *Goldberg Variations*, on this instrument, an ancestor of the piano which cannot create dynamics because it plucks strings to make sound.

ANSWER: **harpsichord**

[10] The most acclaimed recording of the *Goldberg Variations* was made on a piano by this incredibly eccentric Canadian pianist, although some criticized him for being too showy.

ANSWER: Glenn Herbert **Gould**

[10] Bach never wrote a piece explicitly for the piano, even though he lived one generation after this Italian, who is credited with inventing the piano.

ANSWER: Bartolomeo **Cristofori** di Francesco

<Rosenberg>

5. This man wrote of "a people starved and stabbed in the untilled field", a reference to the Peterloo Massacre, in a poem about a land ruled by "an old, mad, blind, despised and dying King". For 10 points each:

[10] Name this author of the sonnet "England in 1819" who urged the title entity to "drive my dead thoughts over the universe" in a poem which asks "If Winter comes, can Spring be far behind?"

ANSWER: Percy Bysshe **Shelley**

[10] Shelley described the remains of a "shattered visage" with a "sneer of cold command" in this poem, in which a "traveller from an antique land" tells of a pedestal reading "Look on my works, ye Mighty, and despair!"

ANSWER: "**Ozymandias**"

[10] In this poem "written in the Vale of Chamouni", Shelley discusses gazing on the "naked countenance of earth" at the title European landmark, which "gleams on high". Its second stanza is about the Ravine of Arve.

ANSWER: "**Mont Blanc**"

<Carson>

6. In one painting, a team of horses pull a cart through a river in the foreground while rainbow arcs over this building in the background. For 10 points each:

[10] Name this building, pictured "from the Meadows" and "from the Bishops' Grounds" in two nineteenth-century paintings by the same artist. It features the tallest church spire in the United Kingdom.

ANSWER: **Salisbury** Cathedral

[10] Those depictions of Salisbury Cathedral were painted by this English landscape artist, whose many depictions of the Stour River valley include *The Lock*, *Willy Lott's Cottage*, and *The Hay Wain*.

ANSWER: John **Constable**

[10] Constable included a gypsy woman tending to a cooking fire in his second painting titled for this specific location in the Stour Valley, which was completed 26 years after an 1802 depiction of a copse of trees here.

ANSWER: **Dedham Vale** [or *The Vale of Dedham*]

<Carson>

7. This character's mother Alberta, who never appears onstage, dies in childbirth. For 10 points each:
[10] Name this baby, the daughter of a washed-up baseball player who didn't manage to break the color line in the majors. She is raised by that man's wife Rose.

ANSWER: **Raynell** Maxson [prompt on "Maxson"]

[10] Raynell is the illegitimate daughter of Troy Maxson, who refuses to allow his son Cory to pursue a football scholarship in this 1983 play.

ANSWER: **Fences**

[10] This African-American playwright included *Fences* alongside *Radio Golf* and *The Piano Lesson* in his ten-part Pittsburgh Cycle.

ANSWER: August **Wilson**

<Mehigan>

8. Answer the following about pigs in Greek mythology, for 10 points each.

[10] This sorceress turned Odysseus' men into pigs, but Odysseus overcame her with the help of moly from Hermes.

ANSWER: **Circe**

[10] This man killed the Calydonian Boar with his spear after Atalanta drew the first blood.

ANSWER: **Meleager**

[10] An old woman named Phaea raised this monster, which terrorized the land between Megara and Corinth until Theseus slew it.

ANSWER: the **Crommyonian Sow**

<Jose>

9. The intensity of this process is inversely proportional to the fourth power of the wavelength of the incident light involved. For 10 points each:

[10] Identify this process, named for an English physicist, whose effects on sunlight explain why the sky appears blue.

ANSWER: **Rayleigh scattering**

[10] Rayleigh scattering is an example of this type of scattering, analogous to a similar type of collision in classical mechanics, in which kinetic energy *is* conserved.

ANSWER: **elastic** scattering [or **elastic** collisions]

[10] Rayleigh scattering involves particles which have radii much smaller than the wavelength of the incident light. When particle radius exceeds ten percent of the light's wavelength, the intensity can be accurately calculated using the scattering model named for this German physicist.

ANSWER: Gustav **Mie** [or **Mie** scattering]

<Carson>

10. This geological formation is home to the Parshall Oil Field. For 10 points each:

[10] Name this large rock unit in the northern United States, whose oil productivity has expanded rapidly in the past few years due to directional drilling and hydraulic fracturing.

ANSWER: **Bakken** formation

[10] The increased productivity of the Bakken formation has aided in the population growth of Williston in this state. The oil boom helped produce this state's lowest-in-the-U.S. unemployment rate.

ANSWER: **North Dakota**

[10] The large Elm Coulee Oil Field is likewise in the Williston basin, but is located across the border from the city of Williston, in this neighboring state.

ANSWER: **Montana**

<Karas>

11. The residents of a resort town are moved to one of these places over the course of Aharon Appelfeld's novel *Badenheim 1939*, while Tadeusz Borowski chronicled his experiences in one in *This Way for the Gas, Ladies and Gentlemen*. For 10 points each:

[10] Identify these places, a famous example of which was the subject of the Primo Levi books *The Drowned and the Saved* and *Survival in Auschwitz*.

ANSWER: Nazi **concentration camps** [or **Konzentrationslager**; or **death camps**; or **extermination camps**]

[10] Moshe the Beadle serves as a Cassandra figure at the beginning of this autobiographical novel about Elie Wiesel's experiences in Auschwitz and Buchenwald.

ANSWER: **Night** [or *La Nuit*; or ***Un di Velt Hot Geshvign***; or ***And the World Remained Silent***]

[10] A young Jewish boy wanders through the chaos of World War II Europe attempting to avoid being sent to a concentration camp in *The Painted Bird*, a novel by this Polish-American author of *Steps* and *Being There*.

ANSWER: Jerzy **Kosinski** [or Jozef **Lewinkopf**]

<Carson>

12. Early African members of this species include Turkana Boy, and are sometimes given the species name *ergaster*. For 10 points each:

[10] Name this ancestor of modern humans whose specimens include Java Man and Peking Man.

ANSWER: ***Homo erectus***

[10] *Homo erectus* and *Homo ergaster* developed the Acheulean stone industry that is best known for its bifacial tools of this type.

ANSWER: hand **axes**

[10] This skeletal feature of *Homo erectus* was notable for its sagittal keel and thick eyebrow ridges. Its capacity ranged from around 800 to 1200 cubic centimeters, overlapping with that of modern humans.

ANSWER: **cranium** [or **skull**]

<Kothari>

13. This king provoked one conflict by stealing Isabelle d'Angouleme, the fiancée of Hugh de Lusignan. For 10 points each:

[10] Name this English king who was forced to sign the Magna Carta by his barons after his alliance lost the Battle of Bouvines.

ANSWER: King **John** [or **John** Lackland or **Jean** sans Terre]

[10] For five years of John's reign, England was put in this status, which forbids the administering of sacraments across an entire region.

ANSWER: **interdict** (IN-tur-dyte)

[10] The interdict came from the third pope of this name, who feuded with John and presided over the Fourth Lateran Council. The tenth Pope of this name acceded to the Peace of Westphalia in 1648.

ANSWER: **Innocent** [or **Innocent III**; or **Innocent X**]

<Bentley>

14. Zerubbabel is the point of departure from the Old Testament of one passage of this kind, . For 10 points each:

[10] Identify this feature of two New Testament passages, Luke 3:23-28 and Matthew 1:1-17, each consisting of a long list of names culminating in Joseph and Mary.

ANSWER: **genealogy of Jesus** [or **Jesus's family tree**; or equivalents]

[10] The genealogy in Matthew includes this daughter-in-law of Judah who bore him two children after Onan refused to do his duty by impregnating her. She shares her name with a daughter of King David raped by her brother Amnon.

ANSWER: **Tamar**

[10] The passage in Luke carefully says Jesus was "a son, as was supposed, of Joseph," in reference to this belief that he was conceived by the Holy Spirit in Mary's womb.

ANSWER: **virgin birth** [do not accept or prompt on "immaculate conception"]

<Gupta>

15. This technique is used instead of performing long division when dividing two polynomials. For 10 points each:

[10] Name this shortcut for polynomial division in the case of division by a binomial of the form x minus a .

ANSWER: **synthetic** division

[10] This theorem is used to find candidates for solutions to polynomial equations. It states that solutions must be integer multiples of the constant coefficient over integer multiples of the leading coefficient.

ANSWER: **rational zero** theorem [or **rational roots** theorem]

[10] The mnemonic FOIL is used to expand a polynomial that has been factored into this many binomials. Quadratics have this degree.

ANSWER: **two**

<Reinstein>

16. This effect was first demonstrated in nature by showing that red imported fire ant workers kill queens that are homozygous dominant at the Gp-9 locus. For 10 points each:

[10] Name this potential explanation for altruism hypothesized by W. D. Hamilton, in which a certain allele causes organisms to preferentially treat others whom they recognize as bearing the same allele.

ANSWER: **greenbeard** effect

[10] The term "greenbeard effect" was coined by this British evolutionary biologist in his book *The Selfish Gene*. He also wrote *The Extended Phenotype*.

ANSWER: (Clinton) Richard **Dawkins**

[10] W. D. Hamilton also popularized the idea of kin selection, in which organisms maximize the "inclusive" type of this concept. This concept denotes an organism's ability to survive and reproduce in a given environment.

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

<Kothari>

17. Name the following Robert Browning poems, none of which is "Prince Hohenstiel-Schwangau, Saviour of Society", for 10 points each.

[10] The line "Rats! They fought the dogs and killed the cats!" opens the second stanza of a poem about this character, who is refused payment for his musical rat-removal services and, in revenge, abducts a crowd of children from a certain German town.

ANSWER: the **Pied Piper** of Hamelin [or the Pied **Piper** of **Hamelin**]

[10] A line from *King Lear* titles this poem, whose protagonist may be the title character of a *chanson de geste*. It ends with the "dauntless" title character blowing his "slug-horn".

ANSWER: "**Childe Roland to the Dark Tower Came**"

[10] This poem tells of a place "where the quiet-coloured end of evening smiles" on "the site once of a city great and gay", of which only a "single little turret" remains.

ANSWER: "**Love Among the Ruins**"

<Carson>

18. Answer the following about Scandinavian sculpture, for 10 points each.

[10] Beloved Danish icon Bertel Thorvaldsen is best-known for designing a monument in Lucerne that commemorates the Swiss Guards and takes the form of a wounded one of these animals. Four bronze ones designed by Edward Landseer surround Nelson's Column.

ANSWER: **lions** [or *Panthera* **leo**]

[10] This oft-vandalized Edvard Eriksen statue sits on a rock in the water just off of Copenhagen's Langelinie promenade. Its subject matter is taken from a Hans Christian Andersen fairy tale.

ANSWER: *The* **Little Mermaid** [or *Den Lille Havfrue*]

[10] This Swedish-American sculptor created Minneapolis's iconic *Spoonbridge and Cherry* and *Lipstick (Ascending) on Caterpillar Tracks* for Yale's Morse College. He is also known for his soft sculptures of huge everyday objects.

ANSWER: Claes **Oldenburg**

<Karas>

19. These policy initiatives emerged out of a September 2000 summit of world leaders in New York City. For 10 points each:

[10] Name this set of eight initiatives, which are all slated to remain incomplete by the target date of 2015. They include a commitment to achieve universal primary education.

ANSWER: **Millennium Development Goals** [or **MDGs**; prompt on **Millennium Project**]

[10] This organization, whose Security Council has five permanent members, drafted the Millennium Development Goals when Kofi Annan was its Secretary-General.

ANSWER: **United Nations** [or **UN**]

[10] George W. Bush committed to achieving this sixth Millennium Development Goal by launching the PEPFAR program focusing on Africa.

ANSWER: eliminating, treating, fighting, reducing etc. **AIDS** or **HIV** or **malaria** [or equivalents; PEPFAR is funding for **AIDS** relief specifically; the name of the Millennium Goal is "**combat HIV/AIDS**, malaria and other diseases"]

<Jackson>

20. The Community Charge, a policy of this type pushed through by Margaret Thatcher, contributed to her fall from power. For 10 points each:

[10] Name this type of tax applied uniformly to each individual. A different type of tax known by the same name was banned in the US by the Twenty-Fourth Amendment.

ANSWER: **poll** tax

[10] This man led the Peasant's Revolt in 1381 in response to a new poll tax. Supported by priest John Ball, he was killed during Richard II's reign.

ANSWER: Wat **Tyler** [or Walter **Tyler**]

[10] Tyler's revolt broke out in Essex and this coastal region east of Sussex. Jack Cade and Thomas Wyatt also rebelled in this region, where Augustine of Canterbury converted a king named Aethelbert.

ANSWER: **Kent**

<Bentley>

21. The 57 isotope of this element is produced by electron capture from cobalt-57. For 10 points each:

[10] Name this transition metal with atomic symbol Fe.

ANSWER: **iron**

[10] The 14.4 keV transition in iron-57 is commonly studied using this kind of spectroscopy named for a German physicist, which works by measuring the recoil-free emission of gamma rays by nuclei in crystals.

ANSWER: **Mossbauer** spectroscopy

[10] A quadrupole splitting term in Mossbauer spectroscopy arises from a non-spherical charge distribution coupled with a gradient in this quantity at the nucleus. This quantity appears in the definition of the Lorentz force, summed with a cross-product term.

ANSWER: **electric field** [or **E**]

<Eltinge>

22. This monarch's many unwise remarks included calling the English "mad as march hares" in a *Daily Telegraph* interview. For 10 points each:

[10] Name this monarch whose navy was built up rapidly by Alfred von Tirpitz. The General Staff of this monarch's army was led by Moltke the Younger.

ANSWER: Kaiser **Wilhelm II** [or Emperor **William II** of Germany]

[10] Wilhelm II compared this ancient people to Germany in an incendiary speech delivered in China. These people lost the battle of Chalons to Aetius.

ANSWER: **Huns** [or **Hunni**]

[10] This four-word phrase, describing a privileged position in world affairs where "rays may fall fruitfully upon [Germany]," emerged from another goofy speech by Wilhelm II.

ANSWER: "a **place in the sun**" [or ein **Platz an der Sonne**]

<Jackson>

23. A song described in this poem concludes with the line "And I wish that I had died." For 10 points each: ?

[10] Name this poem about a musician on Lenox Avenue who drones "a drowsy, syncopated tune" before he "slept like a rock or a man that's dead."

ANSWER: "The **Weary Blues**"

[10] "The Weary Blues" is by this Harlem Renaissance poet who described his soul growing deep in "The Negro Speaks of Rivers."

ANSWER: Langston **Hughes**? [or James Mercer Langston **Hughes**]

[10] In this poem, Hughes tells an instructor, "You are white—yet a part of me, as I am a part of you. That's American."

ANSWER: "**Theme for English B**"

<Mehigan>