## hsapq

1. In June 2012, a bank headquartered in this city was fined $\mathbf{1 6 0}$ million dollars by the US Department of Justice for colluding with other banks to artificially control interest rates. That bank, ${ }^{(*)}$ Barclays, is at the center of this city's LIBOR scandal. The current mayor of this city defeated Ken Livingstone in 2012 elections and noted that one of Mitt Romney's achievements was much easier because it happened "in the middle of nowhere," rather than in this city. For 10 points, name this city led by Boris Johnson and host of the 2012 Summer Olympics.
ANSWER: London
2. This composer wrote an aria in which Jezibab's daughter sings of her wish to become human. This composer of the 'Song to the Moon" was inspired by Brahms' Hungarian Dances to produce a corresponding set of dances from his home country. In his most famous work, an English horn plays a solo in the second movement. That work by this composer of Rusalka and the (*) Slavonic Dances was inspired by African-American spirituals and Native American music. For 10 points, name this Czech composer of the New World Symphony.
ANSWER: Antonin Leopold Dvorak
3. The Silingi and Hasdingi tribes were part of these people. Under King Gelimer, these people lost battles at Tricamarum and Ad Decimum to Belisarius. Genseric led these people from Spain to North Africa, where they set up a kingdom near Carthage. Pope Leo I persuaded these people not to kill or burn and only pillage during their (*) 455 CE sack of Rome. For 10 points, name this Germanic tribe that lends its name to a modern word meaning wanton destruction.
ANSWER: Vandals [or Vandalic Kingdom; or Vandali]
4. The old town walls of this city include the semicircular Weepers' Tower, so named because sailors' wives used to say goodbye to their husbands there. This city contains the largest dependency of St. Petersburg's Hermitage Museum. This city's canals form concentric belts. This city's neighborhood of De Wallen contains its famous (*) red-light district, the largest in Europe. Home to the Rijksmuseum and the Van Gogh Museum, for 10 points, name this city whose coffeeshops sell cannabis.
ANSWER: Amsterdam
020-12-69-05104
5. The rate of change of this quantity is the usual definition of lapse rate. Oxygen isotope ratios can be used to find this quantity. A reverse in the change in this quantity defines the tropopause. A hallmark of EI Niño events, which in 1982-1983 caused widespread coral bleaching, is its (*) increase in the central and eastern Pacific. A reconstruction of it caused the "hockey stick" graph controversy. For 10 points, name this quantity that is increased in global warming.
ANSWER: temperature [or temperature of the atmosphere until "oxygen isotope ratios" is read]
6. This man's characters include the closeted homosexual Kochan and monk who is paid to stomp on a pregnant woman's stomach. One of those characters appears in his semi-autobiographical Confessions of a Mask. The reincarnations of Kiyaoki experienced by the narrator Shigekuni (*) Honda are central to a tetralogy of novels he wrote. Another work by this man ends with Mizoguchi burning the title structure. For 10 points, name this suicidal Japanese author of The Sea of Fertility and The Temple of the Golden Pavilion.
ANSWER: Yukio Mishima [or Kimitake Hiraoka]
7. In one work by this philosopher, subtitled "How to Philosophize with a Hammer," he criticized Socrates and his successors and postulated that a belief in a Christian afterlife leads to hating nature. In addition to $\left(^{*}\right)$ Twilight of the Idols, another work by this philosopher introduced the dichotomy between the Apollonian and the Dionysian. He declared that "God is dead" in his The Gay Science. Championing such concepts as the Ubermensch and eternal recurrence, for 10 points, name this German philosopher of the late nineteenth century, who wrote The Genealogy of Morals.
ANSWER: Friedrich Nietzsche
141-12-69-05107
8. During this event, Major Henry Rathbone was stabbed while trying to stop one participant. The central action occurred after the phrase "sockdologizing old man-trap" was uttered. After this event took place, its perpetrator shouted (*) "Sic semper tyrannis!" as he jumped to the stage. It took place during a production of Our American Cousin at Ford's Theatre. For 10 points, identify this 1865 event in which actor John Wilkes Booth killed the President of the United States.
ANSWER: assassination of Abraham Lincoln [accept equivalents such as killing of Lincoln]
9. In this state, the derivative of the Gibbs Free Energy with respect to the extent of reaction is zero. The law of mass action applies to systems in this state. The ratio of the molarity of products to that of reactants is used to calculate a ${ }^{(*)}$ constant for this state. A shift in this state will occur to oppose the change in a variable that describes a system in this state according to Le Chatelier's principle. For 10 points, name this state of a system that can occur when the forward and reverse reactions of a system proceed at the same rate.
ANSWER: chemical equilibrium
10. This poem is referenced in "The Love-Song of J. Alfred Prufrock" in a line about squeezing the universe into a ball. This poem describes the speaker's potential for 'vegetable love," which he claims will exist until "the conversion of the Jews." The speaker warns of (*) "time's winged chariot" and begins this poem by stating, "Had we but world enough, and time." For 10 points, name this poem dedicated to a reluctant lady, by Andrew Marvell.
ANSWER: "To His Coy Mistress"
192-12-69-05110
11. This composer wrote an opera in which thoughts are asked to "greet the banks of Jordan" during the chorus of the Hebrew Slaves. This composer included "Va, pensiero" in his opera Nabucco. The duke of Mantua sings about the $\left({ }^{*}\right)$ fickleness of woman in this composer's "La Donna e Mobile," part of an opera about the sorrows of a court jester. In another opera by this man, the Egyptian prince Radames grapples with his love for the Ethiopian prisoner with whom he is buried alive. For 10 points, name this composer of Rigoletto and Aida.
ANSWER: Giuseppe Fortunio Francesco Verdi
12. Peter Benenson founded Amnesty International after reading about two imprisoned men from this nation. This country's king Carlos was killed in its capital in 1908. Marcelo Caetano took over the Estado Novo regime in this nation, which was founded by Antonio Salazar and overthrown in the 1974 Carnation Revolution. This nation combated (*) India over territorial rights to its colony Goa. For 10 points, name this Iberian country whose colonies included Angola and Mozambique.
ANSWER: Portugal [or Portuguese Republic; or Republica Portuguesa]
192-12-69-05112
13. The production of helium isotopes shortly after this event is governed by its namesake 'nucleosynthesis." The WMAP spacecraft analyzes a radiant heat that lingered long after this event, known as the cosmic microwave background radiation. This event was named by Fred (*) Hoyle. Cosmic inflation occurred for 10 to the minus 36 seconds after this event. This event was propelled by extremely hot and dense matter cooling down. For 10 points, name this event that happened 13.75 billion years ago, the birth of the universe.
ANSWER: Big Bang [prompt on the birth of the universe or related answers until mention]
020-12-69-05113
14. One work by this thinker examined totemism and asserted that religion was a means for individuals to represent their society. In addition to The Elementary Forms of the Religious Life, this author of Rules of Sociological Method explored (*) egoistic, altruistic, and anomic forms of a certain action. For 10 points, name this French sociologist who explored the effect of anomie on the title concept in his work, Suicide.
ANSWER: David Emile Durkheim
15. In one of this man's works, two lovers play Phyllis and Tircis in a play-within-a-play. In that work by this man, Toinette helps reveal Beline's scheming to the protagonist. The protagonist of that play agrees to the marriage of Cleante and his daughter Angelique and is named (*) Argan. The title character of another of this man's works tries to seduce Elmire, the wife of Orgon. For 10 points, name this 17th-century French playwright of The Imaginary Invalid and Tartuffe.
ANSWER: Moliere [or Jean-Baptiste Poquelin]
16. This hero gave Telephus a wound that could only be healed by the spear that caused it. He was inspired by Iris to go to the battlements in order to frighten his opponents, one of whom he dragged around a city several times. This hero refused to fight after being forced to part with his prize Briseis (bry-SAY-iss). This son of Peleus had all but one $\left(^{*}\right)$ part of his body dipped into the Styx, thus granting him near invulnerability. For 10 points, name this Greek hero who was killed after taking an arrow to the heel.
ANSWER: Achilles
149-12-69-05116
17. During this dynasty, Ni Zan and Huang Gongwang were among the masters who established the tradition of "literati painting." This dynasty was targeted by the Red Turban Rebellion, after which it fell. This dynasty was the first to establish its capital at Beijing. This dynasty employed the Venetian explorer Marco Polo, and it was founded by (*) Kublai Khan after the fall of the Song Dynasty. For 10 points, name this Chinese dynasty ruled by the Mongols.
ANSWER: Yuan Dynasty [or Mongol Dynasty before it is read]
18. This process can be inhibited by Protein $S$ and protein $C$. The drug warfarin inhibits this process, whose healthy execution requires the oxidation of Vitamin $K$. In this process, the binding of factor (*) VIII to the von Willebrand factor is stopped by the action of thrombin, which also converts fibrinogen into an insoluble fibrin mesh. This process is aided by platelets. For 10 points, name this process impaired in hemophiliacs, in which blood solidifies over a wound.
ANSWER: coagulation [or blood clotting; or thrombosis]
104-12-69-05118
19. In this painting, a brush hangs from a bedpost decorated with a carving of Saint Margaret, patron saint of childbirth. This work contains a chandelier with only one lit candle, which hangs above ten medallions illustrating the Passion that surround a convex mirror. In this work, a dog and some discarded $(*)$ clogs are in front of a pregnant-looking woman in green, who holds the hand of a man in a black hat. For 10 points, name this painting by Jan Van Eyck, in which the title Italian merchant is getting married.
ANSWER: the Arnolfini Wedding [or the Arnolfini Marriage; or the Arnolfini Portrait; or any equivalent involving "Arnolfini" and a synonym for "Marriage"]

080-12-69-05119
20. This writer included a joyful "Death Carol" in a poem in which he keeps in his memory a "gray-brown bird" and a flower with heart-shaped leaves. In the final section of a fifty-two-part poem by this man, the speaker declares, "I sound my barbaric (*) yawp over the roofs of the world." This poet wrote of a "great star" drooping in the west in "When Lilacs Last in the Dooryard Bloom'd," an elegy for Abraham Lincoln. For 10 points, name this American poet who included "Song of Myself" in the collection Leaves of Grass.
ANSWER: Walt Whitman [or Walter Whitman]
014-12-69-05120
21. This novel opens during a performance of Faust in which experts on "form" and 'family," Lawrence Lefferts and Sillerton Jackson, are introduced. It ends with the protagonist declining to see his former lover with his son Dallas, whose mother is a member of the (*) Manson Mingott clan. A scandal in this novel arises out of that lover's abandonment of her Polish husbsand. For 10 points, name this novel in which Newland Archer falls in love with the Countess Ellen Olenska, a work by Edith Wharton. ANSWER: The Age of Innocence
22. In this conflict, Maurice de Saxe conquered a portion of the Netherlands after winning the Battle of Fontenoy. Another commander in this conflict won a major victory at Mollwitz only months after beginning the war with the invasion of Silesia in 1740 . This war was ended by the Treaty of (*) Aix-la-Chapelle, which left Silesia to Prussia under Frederick the Great. For 10 points, name this war that resulted in Maria Theresa retaining the throne of the namesake country.
ANSWER: War of the Austrian Succession
014-12-69-05122
23. The ratio of $x$ to $y$ obtained from Pell's equation gives an approximation of this function of $n$. This function of $x$ is equivalent to $e$ to the quantity one-half times the natural $\log$ of $x$. The Babylonian method, or Heron's method, is one way to compute this function. The first known irrational number was this function of $(*)$ two. This function of negative one yields $i$. The distance formula uses a sum of squares and this function. For 10 points, name this function which yields y when y squared is input. ANSWER: square root [do not accept or prompt on "square"]

1. The first of these works features a prominent horn part as it quotes the composer's earlier "Hunt" Cantata. For 10 points each:
[10] Name these six works by the composer of the Goldberg Variations dedicated to Margrave Chrisoph Ludwig in 1721.

## ANSWER: Brandenburg Concertos

[10] This father of composer Carl Philip Emmanuel wrote the Brandenburg Concertos, as well as a collection of 48 preludes and fugues, The Well-Tempered Clavier.
ANSWER: Johann Sebastian Bach
[10] Bach's last major composition was a mass in this key, also the key used in Schubert's Unfinished Symphony.
ANSWER: $\underline{\text { B minor }}$ [do not accept "B" or "B major"]
2. In one poem, this poet included the line, "You're a better man than I am, Gunga Din!" For 10 points each:
[10] Identify this British writer who also wrote poems such as "The White Man's Burden" and "If--." ANSWER: Rudyard Kipling [or Joseph Rudyard Kipling]
[10] Rudyard Kipling also wrote this collection of stories featuring many animals. It includes "Rikki-Tikki-Tavi," and its characters include Mowgli and Bagheera.
ANSWER: The Jungle Book
[10] Rudyard Kipling also wrote this novel about an orphan boy living in Lahore. Its title character works as a spy, and its other characters include Mahbub Ali and Teshoo Lama.

## ANSWER: Kim

189-12-69-05202
3. Renaissance historians attributed the frescoes at the Basilica of St. Francis in Assisi to this man, though that claim is now disputed. For 10 points each:
[10] Name this student of Cimabue, who painted a yellow cloaked Judas embracing Jesus as part of his fresco cycle in the Arena Chapel.
ANSWER: Giotto di Bondone
[10] This Renaissance painter and biographer claimed Giotto as one of the first to abandon medieval styles of painting for the "good modern manner" in his Lives of the Artists.
ANSWER: Giorgio Vasari
[10] Giotto oversaw the construction of the bell tower of this city's cathedral. Brunelleschi designed that cathedral's dome, and this city was home to artists such as Leonardo da Vinci and Michelangelo.
ANSWER: Florence
4. This show sparked two spinoffs, set in Miami and New York City instead of the main show's Las Vegas. For 10 points each:
[10] Name this crime drama series which uses The Who's "Who are you" as a theme song and makes gratuitous overuse of zoom-enhance.
ANSWER: CSI: Crime Scene Investigation
[10] This main character for the first nine seasons of CSI and leader of the team is an amateur entomologist who eventually marries Sara Sidle.
ANSWER: Dr. Gilbert Grissom [or Grissom]
[10] After the departure of Grissom, the team was led by Raymond Langston, who was played by this actor who played Morpheus in The Matrix.
ANSWER: Laurence John Fishburne III
020-12-69-05204
5. This astronomical object was discovered by Clyde Tombaugh in 1930. For 10 points each:
[10] Name this dwarf planet orbited by Charon.
ANSWER: Pluto
[10] This robotic spacecraft mission is expected to be the first craft to study Pluto and its various moons. It is expected to reach Pluto in July 2015.
ANSWER: New Horizons
[10] This satellite of Pluto, along with Hydra, was discovered in June 2005 by the Hubble Space Telescope Pluto Companion Search Team. It also has a name from Greek mythology.
ANSWER: Nyx
052-12-69-05205
6. Identify some figures you might encounter in the Egyptian underworld, for 10 points each.
[10] This god often depicted as a mummy became the king of the underworld after he was killed by his brother Set.
ANSWER: Osiris
[10] This god of writing and the moon recorded the judgment of the dead as Osiris' scribe.
ANSWER: Thoth
[10] If a heart were to be judged impure by not balancing with the feather of Maat, this creature with a crocodile's head and lion's mane would devour it.
ANSWER: Ammut
105-12-69-05206
7. At STP, this amount of ideal gas molecules will occupy twenty-two point four liters of volume. For 10 points each:
[10] Name this SI base unit for amount of a substance. The number of atoms or molecules in one of these units is equal to Avogadro's number, or about 6.02 times ten to the twenty-third power.
ANSWER: mole
[10] A mole is defined to be the number of atoms in exactly twelve grams of the most common isotope of this element.
ANSWER: carbon [or C]
[10] This unit of atomic mass is defined to be exactly one-twelfth of the mass of carbon-12. Also known as an amu, this unit is named for the chemist who developed the law of multiple proportions and a law governing gas partial pressures.
ANSWER: dalton [or Thomas Dalton]
8. One great reformer who promoted democracy in this city-state was named Cleisthenes. For 10 points each:
[10] Name this Greek city-state home to such other leaders as Pericles and Solon. It was defeated by Sparta in the Peloponnesian War.
ANSWER: Athens [or Athenai]
[10] This first legislator of Athens imposed a very harsh written code, handing out the death penalty even for very minor offenses. This man's law was later repealed for the most part by Solon.
ANSWER: Dracon
[10] This location served as the high Court of Appeal for criminal and civil cases in Athens. It was located north-west of the Acropolis on a rocky hill, which was later renamed "Mars Hill" by the Romans.
ANSWER: Areopagus [or Areios Pagos; or Rock of Ares]
052-12-69-05208
9. The title of Junot Diaz's The Brief, Wondrous Life of Oscar Wao was borrowed from one of this author's short stories. For 10 points each:
[10] Name this author of the short stories "The Gambler, the Nun, and the Radio" and "Hills Like White Elephants."
ANSWER: Ernest Hemingway [or Ernest Miller Hemingway]
[10] Another short work by Hemingway is this novel about Santiago the fisherman, who catches a marlin before it is eaten by sharks.
ANSWER: The Old Man and the Sea
[10] In Death in the Afternoon, Hemingway compared his minimalist writing style to these geographical features.
ANSWER: icebergs
10. Name some battles of the American Revolution, for 10 points each.
[10] This battle, which was primarily fought on Breed's Hill, led to the British capture of the Charlestown Peninsula, although they had twice as many casualties as the colonists.
ANSWER: Battle of Bunker Hill
[10] At this 1778 battle in New Jersey, George Washington defeated a force led by Henry Clinton, perhaps with the aid of Molly Pitcher, who gave water to thirsty American troops.
ANSWER: Battle of Monmouth Courthouse
[10] This battle in Virginia ended with Cornwallis's surrender to the combined troops of the Americans and the French under the Comte de Rochambeau.
ANSWER: Battle of Yorktown
11. The Humboldt Current is responsible for cool sea level temperatures in this desert, making parts of it the driest places on earth. For 10 points each:
[10] Name this desert in the Southern Cone of South America, bounded by the Andes Mountains to the east.
ANSWER: Atacama Desert [or Desierto de Atacama]
[10] The Atacama Desert is in the northern regions of this country. This country fought Peru in Bolivia in the War of the Pacific, during which it annexed much of the desert and cut Bolivia off from the Pacific Ocean.
ANSWER: Republic of Chile [or Republica de Chile]
[10] The Atacama Desert was the largest natural supply of this compound used for fertilizer and gunpowder. This compound was a major export of Chile until the Haber process allowed for the mass industrial production of ammonia.
ANSWER: sodium nitrates [or Chilean saltpeter]
12. In one poem, this character surveys the Neva river delta, planning a city, and a statue of him later pursues Evgeny. For 10 points each:
[10] Identify this "great" tsar, whose employ of a black African named Ibrahim is the subject of an unfinished novel by the same author.
ANSWER: Peter the Great [or Pyotr Veliky; or Peter I; or Pyotr Alekseyevich]
[10] This author, himself a descendant of Ibrahim, wrote "The Bronze Horseman" and The Negro of Peter the Great, as well as Eugene Onegin, and is considered the national poet of Russia.
ANSWER: Alexander Pushkin [or Alexander Sergeyevich Pushkin]
[10] Another historical work by Pushkin is this drama, titled for a man who reigned just before the Time of Troubles. It follows that character's torment over killing Dmitry and ends with the false Dmitry, Grigory, unable to gain popular support for his rebellion.
ANSWER: Boris Godunov
13. One of this architect's buildings is designed to look like a smashed guitar. For 10 points each:
[10] Name this architect of the Experience Music Project and the Guggenheim Bilbao.
ANSWER: Frank Owen Gehry
[10] Gehry's Walt Disney Concert Hall is the home of the Philharmonic orchestra of this American city, which is also home to two Getty Museums and the Watts Towers.
ANSWER: Los Angeles, California
[10] Gehry was inspired by the intertwined forms of the dancers Fred Astaire and Ginger Rogers in designing the Dancing House in this European capital.
ANSWER: Prague, Czech Republic [or Praha]
14. Name these Presidents of France, for 10 points each.
[10] This leader of the Free French during World War II instituted the Fifth Republic as its first president. ANSWER: Charles Andre Joseph Marie de Gaulle
[10] This president from 1969 to 1974 faced the May 1968 riots as prime minister. He is the namesake of a Renzo Piano-designed "Center" in Paris.
ANSWER: Georges Jean Raymond Pompidou
[10] This predecessor to Nicolas Sarkozy led the Union for a Popular Movement and earlier served as mayor of Paris.
ANSWER: Jacques Rene Chirac
15. Answer the following about Coulomb's law, for 10 points each.
[10] Coulomb's law deals with this property in electricity which is measured in coulombs. It is symbolized Q , and is negative for electrons.
ANSWER: electric charge
[10] In Coulomb's law, a term for the distance between the two charges is included in the denominator. Identify the power to which that term, symbolized r , is raised in the denominator.
ANSWER: two [do not accept "negative two"]
[10] The constant $k$ in Coulomb's law can be written as one over four pi times this quantity, symbolized epsilon.
ANSWER: electric permittivity
16. There are four main Sunni schools of this law, which is interpreted by scholars known as ulama. For 10 points each:
[10] Name this system of Islamic law that is drawn from the Quran.
ANSWER: Sharia
[10] These sayings of the prophet Mohammed are another main source of Sharia law.
ANSWER: hadith
[10] This Arabic term refers to the interpretation of Sharia by Islamic jurisprudents.
ANSWER: $\underline{\mathbf{f i q h}}$
079-12-69-05216
17. Some animals in phylum Chordata are classified as this, such as sea squirts and lancelets. For 10 points each:
[10] Name this designation given to almost all known species of animals, because they do not have a backbone or spine.
ANSWER: invertebrates
[10] Some invertebrates, such as insects and worms from phylum Nemertea, have one of these appendages. In insects, this part act as a mouth and is used to feed on nectar.
ANSWER: proboscis
[10] Higher order invertebrates have this body part, which is a body cavity that separates the digestive tract from the skin.
ANSWER: coelom (SEE-lom)
140-12-69-05217
18. This man was killed at the Battle of Lutzen. For 10 points each:
[10] Name this Lutheran king, a member of the House of Vasa, who won the pivotal Battle of Breitenfeld during the Thirty Years' War.
ANSWER: Gustavus Adolphus [or Gustav II Adolf]
[10] Gustavus Adolphus ruled this Scandinavian kingdom whose other leaders included Christina and Charles XII.
ANSWER: Kingdom of Sweden [or Konungariket Sverige]
[10] Charles XII led Sweden through this eighteenth-century conflict that grew out of Peter the Great's westward expansion and resulted in Sweden giving up Estonia and Livonia to Russia.
ANSWER: Great Northern War
19. For 10 points each, answer these questions about avant-garde theater.
[10] In this play, Estragon and Vladimir talk about hanging themselves, turnips, and other things but never meet the title figure.
ANSWER: Waiting for Godot [or En Attendant Godot]
[10] Waiting for Godot was originally written in French by this Irish absurdist playwright.
ANSWER: Samuel Beckett [or Samuel Barclay Beckett]
[10] In this Harold Pinter play, two assassins wait for a toilet to flush, argue over whether "light the kettle" is an appropriate phrase, and confusedly fulfill orders for food.
ANSWER: The Dumb Waiter
104-12-69-05219
20. This period began shortly after the Boshin War. For 10 points each:
[10] Name this westernizing period of Japanese history beginning in 1868 with the return of Imperial rule in the form of the namesake emperor.
ANSWER: Meiji Restoration
[10] The Meiji Restoration replaced this period of Japanese history. This period was the last shogunate, took its name from a man who won the Battle of Sekigahara, and followed the Warring States period. ANSWER: Tokugawa Shogunate
[10] The goals of the Meiji Emperor were set forth in this five article statement that outlined a plan to modernize Japan.
ANSWER: Charter Oath [or Imperial Oath of Five Articles; or Gokajo No Goseimon]
141-12-69-05220
21. This poet claimed that "my love is such that rivers cannot quench" in "To My Dear and Loving Husband." For 10 points each:
[10] Name this poet of "Upon the Burning of Our House" and "Before the Birth of One of Her Children."
ANSWER: Anne Bradstreet
[10] This Bradstreet poem describes "an ill-formed offspring of my feeble brain" and relates the story of how her collection of poetry was published in England against her will by John Woodbridge.
ANSWER: "The Author to Her Book"
[10] That collection was titled The Tenth Muse Lately Sprung up in this country, Bradstreet's home, whose other early poets included Philip Freneau.
ANSWER: The United States of America

