

1. The function of this material was confirmed in the Avery-MacLeod-McCarty and Hershey-Chase experiments. Enzymes acting on this material travel in the five-prime to three-prime direction. Okazaki fragments are formed on this material's lagging strand during its replication. This substance is made of linking pyrimidines and purines, and two strands of it are held together by hydrogen bonds. For 10 points, name this substance that is tightly coiled in chromosomes, the genetic material of all living cells.

ANSWER: **DNA** [or **deoxyribonucleic acid**]

027-09-1-09101

2. Roland Barthes' *S/Z* is an analysis of this author's story "Sarrasine." He classified the novel *Lost Illusions* as one of his "scenes from provincial life," along with *Eugénie Grandet*. Eugène de Rastignac is a recurring character in his novels, which include *Cousin Pons* and *Cousin Bette* as well as a novel about a doting parent, *Pere Goriot*. For 10 points, name this prolific French author who wrote over one hundred works, which make up *The Human Comedy*.

ANSWER: Honoré de **Balzac**

024-09-1-09102

3. One emperor from this country delivered the "Cry of Ipiranga" speech. This nation's final emperor freed slaves via the Golden Law, which was signed in absentia by his daughter Isabel. This nation sent forces to its state of Mato Grosso to combat invaders and benefitted from the talents of the Duke of Caxias [CAH-she-es] when it fought with Argentina and Uruguay against Paraguay in a Triple Alliance. For 10 points, name this nation whose last emperor, Pedro II, ruled from Rio de Janeiro, and which more recently has had a capital constructed at Brasilia.

ANSWER: Federative Republic of **Brazil** [or República Federativa do **Brasil**]

022-09-1-09103

4. An azeotrope either minimizes or maximizes this quantity depending on whether the solution shows positive or negative deviations from Raoult's Law. Compared to a pure solvent, a solution will increase this quantity proportionally to its molality. Liquids for which this quantity is lower than the external temperature are called volatile. It is defined as the temperature at which the external pressure and the vapor pressure of a liquid are equal. For 10 points, name this point, which at one atmosphere of pressure is one hundred degrees Celsius for water.

ANSWER: **boiling** point

003-09-1-09104

5. This man drew criticism for his favoring of Pakistan during the Bangladeshi war of independence, and he served as a foreign policy advisor to Nelson Rockefeller during Rockefeller's failed 1968 presidential run. This man engaged in secret talks prior to the Shanghai Communiqué, and he prematurely stated, "Peace is at hand," during negotiations with Le Duc Tho during the Paris Peace Conference, for which he was to earn a Nobel Peace Prize. A pioneer of the détente policy, for 10 points name this man who served as secretary of state under presidents Ford and Nixon.

ANSWER: Henry Alfred Wolfgang **Kissinger**

030-09-1-09105

6. This term of a field extension K over F is the dimension of the vector space K . Formally, this concept may be extended to any function as the ratio of the limit as x increases of \log of the magnitude of f of x over $\log x$. The Abel-Ruffini theorem states that the highest this quantity can be for a polynomial equation to be soluble in radicals is four. For 10 points, identify this term that refers both to the highest power of the variable found in a term of a polynomial, and to a unit equal to π over one hundred eighty radians, used to measure angles.

ANSWER: **degree**

022-09-1-09106

7. WRITE MORE QUESTIONS, Particularly a Social Science-Sociology Tossup

00--20-09107

8. This man received help from Luis de Santangel in getting funding for one plan, and this man was also helped by a chief of the Taino named Guacanagari. This man started a colony whose garrison was massacred called La Navidad, and that colony's inhabitants were sailors from this man's wrecked flagship. This man chose to sail to the Canary Islands at the beginning of his first voyage, one of four he made. For 10 points, name this man who sailed for Ferdinand and Isabella with the Pinta, the Niña, and the Santa María, with which he discovered the New World.

ANSWER: Christopher **Columbus**

023-09-1-09108

9. The title character of one play by this author is a childless woman who kills her husband Juan. In one play by this author, Leonardo and the Groom kill each other. Those plays, *Yerma* and *Blood Wedding*, make up two-thirds of this author's "rural trilogy," along with a play about the sickly Angustias, the submissive Amelia, and the defiant Adela, all daughters of the title character. For 10 points, name this Spanish playwright of *The House of Bernarda Alba*.

ANSWER: Federico García **Lorca**

024-09-1-09109

10. One reaction to this period was an uprising led by Takamori Saigo known as the Satsuma Rebellion, and the work of Ito Hirobumi led to the creation of a constitution during this period. One document produced during this period called for the end of "evil customs of the past" as one of its five articles, and was known as the Charter Oath. This period brought about the end of feudalism in its country, and the end of the Tokugawa shogunate. For 10 points, name this "Restoration" that marked the return to power of the emperor in Japan.

ANSWER: **Meiji** Period

023-09-1-09110

1. He wrote about Sam, who works as a newsboy in Chicago after leaving his home in Iowa, and John Stockton changes his name to Bruce Dudley in a novel the Hemingway parodied in "The Torrents of Spring," *Dark Laughter*. The author of *Windy McPherson's Son*, he wrote about a berry picking former teacher named Wing Biddlebaum in one work. In that work, Kate Swift is admired by the Reverend Curtis Hartman, and the residents of a town are all observed by the reporter George Willard. For 10 points, name this author of *Winesburg, Ohio*.

ANSWER: Sherwood **Anderson**

027-09-1-09111

BONUS. Its protagonist, Hans Castorp, will soon be a shipbuilder in Hamburg when he decides to visit Joachim Ziemssen. For 10 points each:

[10] Name this novel in which the protagonist meets figures like the humanist and encyclopedist Settembrini, whose title location is a sanatorium in Davos, in the Swiss Alps.

ANSWER: *The **Magic Mountain*** [or *Der **Zauberberg***]

[10] *The Magic Mountain* was written by this German author who wrote *Doctor Faustus* and described four generations of the wealthy Buddenbrooks family in his first work.

ANSWER: Paul Thomas **Mann**

[10] In another Thomas Mann work, Gustav von Aschenbach becomes obsessed with a Polish boy in this city and dies, but not before having a disturbing conversation with a red-headed gondolier.

ANSWER: **Venice** [or **Venezia**]

022-09-1-09201

2. One system for performing this function is called ElGamal, and Shannon investigated the "One-time pad" form of it. Common algorithms and schemes include AES and RSA, and methods can be divided into block and stream types. Symmetric and asymmetric key types are used in the public key type. Central to the SSL protocol, techniques for it are called ciphers. For 10 points, identify this security technique of obscuring information so that others cannot read it.

ANSWER: **encryption** [or **cryptophy**; accept word forms]

001-09-1-09112

BONUS. This party's agenda included "internal improvements," or the construction of roads and canals by the government, which they would fund via higher tariffs. For 10 points each:

[10] Name this 19th century political party that opposed Andrew Jackson, and whose members included William Henry Harrison.

ANSWER: **Whig** Party [or the **Whiggery**]

[10] The leader of the Whigs was this Senator from Kentucky, nicknamed the "Great Compromiser." He famously proposed the American System.

ANSWER: Henry **Clay**, Sr.

[10] This last Whig President later unsuccessfully ran for president under the Know-Nothing party, six years after he stepped in after Zachary Taylor's death.

ANSWER: Millard **Fillmore**

021-09-1-09202

3. In one work by this writer, a soldier bitterly remembers his unrequited love for his shallow-hearted cousin Amy and asks that a thunderbolt fall on "Locksley Hall." Another work by this poet compares dying to setting out on the sea; the narrator of that work wishes to see his "Pilot face to face." He wrote an elegy for Arthur Henry Hallam, in which he famously noted that "Tis better to have loved and lost/Than never to have loved at all." For 10 points, name this author of *In Memoriam*, who wrote about a battle in the Crimean War in "The Charge of the Light Brigade."

ANSWER: Alfred Lord **Tennyson**

034-09-1-09113

BONUS. The second of these violin concertos depicts a thunderstorm in its Presto movement. For 10 points each:

[10] Name the collective title of these musical works composed in 1723 that depicts different times of the year.

ANSWER: *The **Four Seasons*** [or *Le **quattro stagioni***]

[10] This Italian Baroque composer wrote the opera *Montezuma* and the concerto collection *L'Estro Armonico*. He created *The Four Seasons*.

ANSWER: Antonio Lucio **Vivaldi**

[10] This Austrian composer wrote an oratorio called *The Seasons*. His many symphonies, including ones grouped as Paris and London, have led him to be known as "the father of the symphony."

ANSWER: Franz Joseph **Haydn**

004-09-1-09203

4. One member of this group, John Ross, led a delegation that selected William Wirt as its chief counsel in two Supreme Court cases. The writing system for the language of this people was invented by Sequoyah. These people were granted federal protection from state infringement on their sovereignty by a case which prompted the misattributed line, "John Marshall has made his decision, now let him enforce it!" For 10 points, name this Native American tribe that was forcibly relocated along the Trail of Tears.

ANSWER: **Cherokee**

003-09-1-09114

BONUS. Segmented ones are called annelids. For 10 points each:

[10] Name this loosely defined term which also is applied to the "flat" Platyhelminthes type.

ANSWER: **worms**

[10] This pseudocoelomate phylum of "roundworms" has species such as the hookworm.

ANSWER: **Nematoda** [or **Nematodes**]

[10] The bdelloids are a class of this other phylum of pseudocoelomate worms, which feasts on fish waste and decomposing bacteria.

ANSWER: **Rotifera** [or **Rotifers**]

001-09-1-09204

5. This author created the Zogoiby family, who are Jews that trace their ancestry back to King Boabdil of Grenada, in his novel *The Moor's Last Sigh*. He wrote about Parvati the Witch, who is killed during a raid by Indira Gandhi in a work that centers on the eventually-castrated Saleem Sinai. That character, who attempts to convene everyone born on the night of India's independence, appears in his *Midnight's Children*. He gained notoriety for a novel about two survivors of a fall from a hijacked plane. For 10 points, name this author of *The Satanic Verses*, for which he received a fatwa.

ANSWER: Sir Ahmed Salman **Rushdie**

027-09-1-09115

BONUS. This man's only heir died in the White Ship incident, and he issued the Charter of Liberties. For 10 points each:

[10] Name this fourth son of William the Conqueror, who succeeded his brother William Rufus as King of England.

ANSWER: **Henry I** of England [or Henry **Beauclerc**; or **Lion of Justice**; prompt on **Henry**]

[10] Henry defeated his brother Robert Curthouse at the Battle of Tinchebray to gain control of this region of northern France, which is where the D-Day landings occurred centuries later.

ANSWER: **Normandy** [or **Normandie**]

[10] Henry's political marriage to Edith, the daughter of King Malcolm III of this kingdom, displeased many. This kingdom fought a war of independence under the leadership of William Wallace.

ANSWER: Kingdom of **Scotland**

033-09-1-09205

6. One derivation of this law uses the Lorentz Force Law without the magnetic field's presence, and one of Gauss's laws. Its namesake constant is the inverse of the product of 4 pi and the permittivity of free space, or approximately the product of 9 billion, the square of a Newton, and the inverse of its namesake unit. It is the electrical analog of Newton's Law of Gravitation. For 10 points, name this inverse-square law that relates an electric force to point charges, which is named after a French scientist.

ANSWER: **Coulomb's** Law

033-09-1-09116

BONUS. The quantity theory of this concept states that an increase in its supply will result in a proportionate increase in prices. For 10 points each:

[10] Give this term for objects used to pay for goods and services, which is often expressed in currency units.

ANSWER: **money**

[10] This situation often results from a sudden and massive increase in the money supply, sharply devaluing the currency. In Zimbabwe, it climaxed with the 2009 printing of the hundred-trillion-dollar bill.

ANSWER: **hyperinflation** [prompt on **inflation**]

[10] This type of inflation results from the increase in prices for raw materials and labor. Monetarists believe it cannot happen without a corresponding increase in the money supply, and it is contrasted with demand-pull inflation.

ANSWER: **cost-push** inflation

003-09-1-09206

7. In one of this author's novels, Wash Jones beheads the main character with a scythe, and Charles Bon is killed at Sutpen's Hundred. This man also wrote a book in which Vardaman repeats "my mother is a fish" during the Bundren family's arduous journey to Addie's grave. Quentin Compson kills himself at Harvard in another book by this author. The Snopes, Sartoris, and Compson families populate Mississippi's Yoknapatawpha County, in the works of, for 10 points, what author of *Absalom, Absalom, As I Lay Dying*, and *The Sound and the Fury*?

ANSWER: William Cuthbert **Faulkner**

019-09-1-09117

BONUS. This man painted a figure in a straw hat leaning against a railing. For 10 points each:

[10] Name this impressionist painter of *Luncheon of the Boating Party*, who painted several people at a dance in *La Moulin de la Galette*.

ANSWER: Pierre-Auguste **Renoir** (REN-WAR)

[10] Renoir painted two portraits of this man, whose own works include some *Water Lilies* and the campus *Impression: Sunrise*, which sparked the Impressionist movement.

ANSWER: Oscar Claude **Monet** (MOE-NAY) [do not accept **Manet** (MAN-AY)]

[10] *Luncheon of the Boating Party* depicts the painter Gustave Caillebotte (CAI-BO), who is most noted for his depiction of umbrella-clad walkers on a street during a "Rainy Day" in this city.

ANSWER: **Paris**

026-09-1-09207

8. In one passage of this book, Jesus claims that he is the "true vine," while God is the "gardener." This is the only canonical gospel to mention that Jesus washed the feet of the disciples. It uniquely records Jesus as saying "verily" twice. Church tradition holds that the author of this book also authored the Book of Revelation. It is the only non-synoptic canonical gospel, and it begins by stating "In the beginning was the Word." It also contains the passage, "God so loved the world that he gave his only Son." For 10 points, name this fourth book of the New Testament, that comes after Matthew, Mark, and Luke.

ANSWER: The Gospel According to **John** [or Kata **Ioannēn**]

026-09-1-09118

BONUS. Name these Christian saints with something in common, for 10 points each.

[10] This man was elevated to Doctor of the Church for making a Latin translation of the Bible known as the *Vulgate*.

ANSWER: St. **Jerome** of Stridonium [or Eusebius Sophronius **Hieronymous**]

[10] This man supposedly devised the Glagolitic alphabet to render Old Church Slavonic, thus creating an alphabet named for him that is used to write Russian and other Slavic languages.

ANSWER: St. **Cyril**

[10] This other "Apostle to the Slavs" was the brother of Cyril and co-developer of the Cyrillic alphabet.

ANSWER: St. **Methodius**

026-09-1-09208

9. These groups are often called "phylotypes" when referring to parthenogenic organisms. New ones may be formed through processes encouraged by the Wallace effect; those processes may be peripatric or allopatric. Offspring of organisms in two different ones are typically infertile hybrids, since organisms within one of the groups generally can breed only with each other. For 10 points, give this term paired in binary nomenclature with the genus, whose "Origin" is the subject of a book by Charles Darwin.

ANSWER: **species**

022-09-1-09119

BONUS. They are the boundaries between different air masses. For 10 points each:

[10] Identify these meteorological phenomena that have warm and cold types.

ANSWER: **fronts**

[10] This type of complex front occurs when a cold front overtakes a warm front.

ANSWER: **occluded** front

[10] When a tornado forms, this collection of water droplets can make the tornado visible. They extend down from a cumulonimbus.

ANSWER: **funnel cloud** [or **condensation funnel**]

001-09-1-09209

10. The Valle (VAY-ay) de las Vacas is located at the base of this mountain, and large glaciers on this mountain include the Gussfeldt and the Horcones Inferior. Konstanty Narkiewicz-Jodko (nar-KAY-vitz YOD-ko) was the first to use the Polish Route to the summit of this mountain, and a commonly used base camp for ascents of this mountain is Puente del Inca. Matthias Zurbriggen was the first to climb, for 10 points, which mountain located in the Mendoza Province of Argentina, the highest peak in the Americas?
ANSWER: Cerro **Aconcagua**

038-09-1-09120

BONUS. The protagonist of this work shoots Israel Hands in self-defense. For 10 points each:
[10] Name this work, in which the death of Billy Bones sets off a chain of events that includes Long John Silver's mutiny on the *Hispaniola*.

ANSWER: **Treasure Island**

[10] This author of *Kidnapped* and *The Black Arrow* wrote *Treasure Island*.

ANSWER: Robert Louis Balfour **Stevenson**

[10] This narrator of *Treasure Island* is the son of the owner of The Admiral Benbow Inn. He befriends Ben Gunn and locates the map of Treasure Island.

ANSWER: **Jim Hawkins** [accept either name]

015-09-1-09210

1. [10] Name the baseball team that traded its ace Jake Peavy during the 2009 season, and whose historic stars have included Tony Gwynn and Brian Giles.

ANSWER: **San Diego** Padres [or San Diego **Padres**]

2. [10] This is a 20-second calculation question. 51 is 30% of what number?

ANSWER: **170**

3. [10] Give the literary term that describes repeatedly using the same vowel sounds in verse, and is similar to alliteration.

ANSWER: **assonance**

4. [10] What author of *The Signifying Monkey* is an African-American Harvard professor who was controversially arrested in his home in July 2009?

ANSWER: Henry Louis **Gates** Jr.

5. [10] This is a 10-second calculation question. If in the formula $2a + 3b = c$, you are given that $a = 1$ and $c = 17$, what is b ?

ANSWER: **5**

6. [10] What theory defines an acid as having the ability to donate a proton, and a base as having the ability to accept a proton?

ANSWER: **Brønsted-Lowry** theory

7. [10] What round type of lake is created when a block of ice falls off of a glacier, leaving an impact hole, and then melting to fill the hole?

ANSWER: **kettle** lakes

8. [10] What is the Spanish word for "wheat?"

ANSWER: el **trigo**

9. [10] Identify the mountain range that contains Yosemite National Park and Donner Pass, as well as Mount Whitney.

ANSWER: the **Sierra Nevadas** [prompt on **Sierras**]

10. [10] This is a 30-second calculation question. The angle theta is defined as the angle from the x-axis counterclockwise to the ray through the origin and the point (4,3). Find tangent theta.

ANSWER: **3/4** [or **0.75**]

1. [10] What singer, who was featured on Timbaland's song "The Way I Are," features Kanye West telling listeners to "Keep rockin' and keep knockin'" in her song "Knock You Down?"

ANSWER: Keri Lynn **Hilson**

2. [10] This is a 10-second calculation question. If you drive 210 miles in four hours, what is your average speed for the trip?

ANSWER: **52.5 mph**

3. [10] What poem by Joyce Kilmer includes the speaker claiming "I think that I shall never see / A poem lovely as" one of the title objects?

ANSWER: "**Trees**"

4. [10] This failed Democratic candidate for the 2008 Presidential nomination is a Connecticut Senator. Name this colleague of Joe Lieberman who announced in July 2009 that he has cancer.

ANSWER: Christopher John **Dodd**

5. [10] This is a 30-second calculation question. If x varies inversely with y , and x is 10 when y is 10, find x when y is 25.

ANSWER: **4**

6. [10] This branch of biology depends on namesake organizations, which map a single organism's descendents. Identify this classification paradigm, whose namesake diagrams display monophyletic, paraphyletic, and polyphyletic groups.

ANSWER: **cladistics** [accept **clade**]

7. [10] This Italian inspired Otto von Guericke's Magdeburg hemisphere experiment by creating the first artificial vacuum. Name this man who invented of the barometer, which is why the unit for millimeters of mercury bears his name.

ANSWER: Evangelista **Torricelli** [prompt on **torr**]

8. [10] Name the German-American painter who depicted a man hoisting the American flag behind a future President in his *Washington Crossing the Delaware*.

ANSWER: Emanuel Gottlieb **Leutze**

9. [10] This effect was first studied by Konrad Lorenz in graylag geese. What is this process, whereby recent hatchlings identify their mother?

ANSWER: **imprinting**

10. [10] This is a 20-second calculation question. How many ways are there to choose two committee members from a list of five candidates?

ANSWER: **10**

026-09-1-09401

1. Daniel Burnham and James Phelan worked to make this city the "Paris of the West" after much of it was leveled in a 1906 earthquake. This city was the site of the 1945 conference that created the United Nations. This city's city hall was the location of a double murder by Dan White, who killed this city's mayor George Moscone and supervisor Harvey Milk in 1978. This city's mayors have also included Willie Brown and Dianne Feinstein. For 10 points, name this California city which contains the famous Haight-Ashbury district and the Golden Gate Bridge.

ANSWER: **San Francisco**

030-09-1-09122

2. The protagonist of this novel tears up the number of a woman in Rome who calls him a pig but sleeps with him anyway, Luciana. One character's incessant nightly howling is prompted by the cat of his roommate Huple and brings comfort to a character deathly afraid of having his throat slit. The protagonist is traumatized by Snowden's death and sleeps in a tent with the belongings of a dead man. The crafty Milo Minderbender serves as mess hall officer in this novel, whose title concept is explained by Doc Daneeka to Yossarian, who is stuck flying bombing missions. For 10 points, name this Joseph Heller novel.

ANSWER: **Catch-22**

012-09-1-09123

3. This phenomenon can be measured via the TORRO scale, and relative velocity images can identify convergence boundaries where these form. Rear flank downdrafts are responsible for this feature's signature hook echo on Doppler radar imagery. Most commonly found as satellite, rope, and wedge types, strong ones often descend from wall clouds in mesocyclones, and may feature multiple vortices. The "enhanced" version of the scale currently in use ranks these from zero to five. For 10 points, name this weather phenomenon, a destructive rotating column of air.

ANSWER: **tornadoes**

001-09-1-09124

4. Archbishop Trolle helped organize a 1520 event in this country's capital nicknamed that city's "Bloodbath." Several kings of this country were advised by members of the Oxenstierna family. This former member of the Kalmar Union had a king who won the Battle of Breitenfeld while fighting in the Thirty Years' War on the Protestant side. During an 1809 war with Russia, this country lost control of its neighbor, Finland. For 10 points, name this home of Gustavus Adolphus, whose capital is Stockholm.

ANSWER: Kingdom of **Sweden** [or Konungarikat **Sverige**]

021-09-1-09125

5. This thinker's nature writing is collected in *The Earth Has a Soul*. He rose to prominence after publishing *The Psychology of Dementia Praecox*, and he called the alignment of masculine and feminine principles "syzygy." This psychologist edited *Man and His Symbols* and originated the ideas of extroversion and introversion in *Psychological Types*. This thinker enumerated the persona, shadow, self, and the gender-determined animus and anima, which are collectively known as his four archetypes. For 10 points, name this developer of the "collective unconscious."

ANSWER: Carl Gustav **Jung**

022-09-1-09126

6. This artist of a portrait of Madame Recamier also painted Pope Pius VII crowning the the title French emperor in *The Coronation of Napoleon*. This artist of *Napoleon Crossing the Alps* also painted a cup of hemlock at the center of his painting *The Death of Socrates*. His classical scenes include one where three brothers raise their swords. This painter also depicted a French revolutionary murdered by Charlotte Corday in his bath. For 10 points, name this French neoclassicist painter of *The Oath of the Horatii* and *The Death of Marat*.

ANSWER: Jacques Louis **David**

015-09-1-09127

7. In the second act of one of this man's plays, a character recites the Ten Commandments but leaves one out, and later in that act Francis Nurse's wife is accused of murdering Thomas Putnam's babies. That play by this author features the death of Giles Corey, who asks for "more weight" as he is crushed by rocks. In another play by this man, the protagonist hallucinates about his dead brother Ben, who found diamonds in Alaska; that man's funeral after his car-related suicide is attended by Linda, Happy, and Biff. For 10 points, name the author who wrote about Salem Witch Trials in *The Crucible* and Willy Loman in *Death of a Salesman*.

ANSWER: Arthur **Miller**

022-09-1-09128

8. This leader created a ten-point strategy for his countrymen in his *April Theses*, which were written by this man during his "sealed train" journey. Another strategy was outlined by this man in *What Is to Be Done?* As a national leader, this man was persuaded to abandon the strict War Communism plan in favor of the New Economic Policy. This man was supported by the Red Army as formed by Leon Trotsky. For 10 points, name this leader of the Bolsheviks who was eventually succeeded by Joseph Stalin as head of the Communist Party in the Soviet Union.

ANSWER: Vladimir Ilich **Lenin** [or Vladimir Ilich **Ulyanov**]

023-09-1-09129

9. This composer used themes from the 150th cantata of Bach for his fourth and final symphony in E minor. He wrote the *Four Serious Songs* for his dying friend Clara Schumann. Another of his works written in memory of his mother uses Martin Luther's translation and is entitled the *German Requiem*. This composer created a work for the University of Breslau, (BRESS-lauw) the *Academic Festival Overture*. Though not Hungarian, he also wrote the *Hungarian Dances*. For 10 points, name this composer of a certain "lullaby," who is ranked as one of the "three Bs" with Bach and Beethoven.

ANSWER: Johannes **Brahms**

019-09-1-09130

10. This man's political philosophy is alleged to promote totalitarianism in Karl Popper's *The Open Society and Its Enemies*. This philosopher relayed how a man taught a slave to double a square; that is part of this man's argument that knowledge is innate. He describes the arguments of Thrasymachus in a work that contains the "Allegory of the Cave." That work of his claims that philosophers would rule the title place. For 10 points, name this author of the dialogues *Meno* and *Crito*, who relayed Socrates's defiance in the *Apology* and wrote the *Republic*.

ANSWER: **Plato** [or **Platon**]

026-09-1-09131

1. One message in this play is undelivered because its deliverer is stuck in a quarantine house for plague. One character in this play is called "the prince of cats," witnesses the drawn swords of the servants Abraham and Balthazar, and engages Benvolio on the spot. One protagonist of this play is initially infatuated with Rosaline and later ventures to a great tomb where his lover, the other title character, is kept-near death on Friar Lawrence's advice. For 10 points, identify this tragedy set in Verona, concerning the title "star-crossed lovers" of the Montagues and Capulets, written by William Shakespeare.

ANSWER: Romeo and Juliet

022-09-1-09132

2. He's not John Stuart Mill, but this economist wrote a work entitled *Principles of Political Economy*, and he also wrote *The Nature of Rent*. His most famous work contains six chapters of commentary on William Godwin's theories, and notes that population increases geometrically while food supply only increases arithmetically, leading to his namesake catastrophe. For 10 points, name this economist who wrote *An Essay on the Principle of Population*.

ANSWER: Thomas Malthus

024-09-1-09133

3. This entity's functions include synthesizing sphingomyelin and adding sulfate groups to tyrosine. It creates clathrin-coated vesicles that send proteins to other parts of the cell. This organelle has cis and trans faces, and consists of stacked, flattened disks called cisternae. For 10 points, name this organelle, which is found near the endoplasmic reticulum, packages and sorts newly created proteins, and is named after an Italian scientist.

ANSWER: Golgi apparatus [or any reasonable synonyms for "apparatus," e.g. Golgi body or Golgi entity]

026-09-1-09134