Tossups

1. This philosopher responded to an argument by drawing an analogy to the way painters make up imaginary creatures like satyrs by combining parts of different, real animals. The terms *res cogitans* and *res extensa* refer to the different substances making up mind and matter according to this philosopher. This philosopher proposed the "dream argument" and "evil demon argument" in pursuing his method of systemic doubt, which he employed in a treatise endorsing mind-body dualism. For 10 points, name this early modern French philosopher, the author of *Meditations on First Philosophy*, who memorably declared "I think, therefore I am."
ANSWER: René **Descartes** [or Renatus **Cartesius**]
<Philosophy/Social Science>

2. The presence of these structures results in kame-and-kettle topography. When these structures are no longer present, land masses undergo isostatic rebound. Water under these structures can dislodge and transport bedrock in a process known as "plucking." The firn line separates the upper accumulation zones from the lower ablation zones in these structures. A topography named for a basket of eggs is created when till from these structures accumulates into drumlins in areas of unstratified sediment called moraines. These structures lose mass by calving ("CAV-ing"), in which chunks of ice fall off their surfaces. For 10 points, name these massive moving sheets of ice.
ANSWER: **glacier**s
<Other Science>

3. In one poem, this author describes a woman "Gathering her brows like gathering storm / Nursing her wrath to keep it warm." The title character of that poem by this author rides a grey horse named Meg, who loses her tail. Another poem by this author states that the narrator's love will last until rocks melt in the sun and the sands of life run out. That poem by this so-called "Ploughman Poet" compares the narrator's love to the title object "That's newly sprung in June." This Alloway-born poet of "Tam O'Shanter" wrote another poem that describes a "Wee, sleeket, cowran, tim'rous beastie." For 10 points, what author of "A Red, Red Rose" and "To a Mouse" is considered the national poet of Scotland?
ANSWER: Robert **Burns** [or Rabbie **Burns**]
<British Literature>

4. A general from this city was decapitated and had his head thrown into another general's camp after losing the Battle of Metaurus River. After losing one war, this city fought soldiers it had hired to wage it in the Mercenary War. Forces of this city began a different conflict by attacking the city of Saguntum ("sug-UN-tum") in modern-day Spain. At the end of all of his speeches, Cato the Elder called for the destruction of this city, which was finally accomplished in 146 BC. This city's forces were defeated at the Battle of Zama by Scipio Africanus. For 10 points, Hannibal Barca was a general from what city that fought the Punic Wars against Rome?
ANSWER: **Carthage**
<Other History>

5. A solo trumpet and English horn play serene melodic lines over hushed strings in this composer's *Quiet City*. After an introduction by the timpani, bass drum, and tam-tam, the trumpets play the rising notes "F B-flat F" in a work by this composer inspired by a Henry Wallace speech. The narrator states that "we cannot escape history" in this composer's piece *Lincoln Portrait*. In one of this composer's ballets, a couple dances a *pas de deux* ("pah duh doo") before celebrating a wedding, and later performs farm work to five variations on "Simple Gifts." For 10 points, name this American composer of *Appalachian Spring*.
ANSWER: Aaron **Copland**
<Classical Music>

6. In July 2020, this organization's proposed COVID recovery plan was blocked by the so-called "Frugal Five," whose leaders include Mette Frederiksen and Sanna Marin ("SAHN-nah MAH-reen"). This organization resisted calls to create a joint debt program nicknamed "corona bonds" which Giuseppe Conte ("CON-tay") demanded. In 2019, Charles Michel, David Sassoli, and Ursula von der Leyen ("von dur LAY-in") each became presidents of this organization. 705 MEPs sit in this organization's parliament. The 1992 Maastricht ("MAH-strict") Treaty established this organization, which Croatia became the latest country to join in 2013. For 10 points, in 2020 Britain exited from what supranational organization?
ANSWER: **European Union** [or **EU**; accept **European Council** or **European Central Bank** until "presidents" is read]
<Current Events/Geography/Other Academic/Pop Culture>

7. A book by Benjamin Hoff explains this religion by allegorically utilizing characters from Winnie-the-Pooh stories. In a common depiction, this religion's founder is shown reacting with a sweet expression after tasting a vat of vinegar. One of this religion's fundamental texts discusses the three treasures of compassion, frugality, and humility. That text from this religion opens by stating that "the name that can be named is not the enduring and unchanging name," and outlines the principle of *wu wei* ("woo way"), or intentionless action. For 10 points, name this Chinese religion founded by Laozi, whose central concept is typically translated as "the Way."
ANSWER: **Taoism** [or **Daoism**; or **Tao**; or **Dao**; or word forms; accept *The **Tao** of Pooh*]
<Religion>

8. A derived SI unit dimensionally equivalent to a hertz is named for these substances. These substances are packed into buoyant, porous spheres in a fluidized bed cracker. Like adsorbents, a term symbolized theta called the surface coverage is used in models of solid examples of these substances, such as MOFs ("moffs") or zeolites. Noble metals and metal oxides are typically used industrially as heterogeneous examples of these substances, which work by stabilizing transition states and providing an alternate pathway with lower activation energy. For 10 points, name these substances that accelerate chemical reactions.
ANSWER: **catalyst**s [or heterogeneous **catalyst**s]
<Chemistry>

9. François Bizot ("bee-ZO") was held captive in this organization's M-13 facility. This group killed children by bashing their heads into chankiri trees and burying them in pits with their parents. Elizabeth Becker and Nate Thayer interviewed the leader of this group, which captured the American ship SS *Mayaguez*. In this group's "Super Great Leap Forward," so-called "New People" from cities it controlled were forcibly displaced. This group referred to one of its leaders as "brother number one," and his identity was kept hidden until after its collapse in 1979 amid a Vietnamese invasion. For 10 points, genocide in "killing fields" was carried out by what Cambodian communist regime headed by Pol Pot?
ANSWER: **Khmer Rouge** [accept **Democratic Kampuchea**; accept **Communist Party of Kampuchea**; accept **CPK**; prompt on Cambodia; prompt on Kampuchea]
<World History>

10. A play from this country is set after two 11-year-olds fight and Ferdinand knocks out two of Bruno's teeth with a stick. That play from this country is by Yasmina Reza and is titled *God of Carnage*. In another play from this country, one character begins singing about execution, while another character is unable to find a mirror. A valet with no eyelids enters with each character in a play from this country, in which Inèz acknowledges that she is a cruel person. After Estelle stabs Inèz with a paper knife, Joseph concludes that "hell is other people" in a play from this country set in a furnished room; that play is *No Exit*. For 10 points, name this home country of Jean-Paul Sartre ("sart").
ANSWER: **France**
<European Literature>

11. The argument of this quantity couples with electromagnetic potentials in the Aharonov–Bohm ("uh-HA-ruh-nov BOHM") effect. A coefficient for this quantity is found by setting the integral, from negative to positive infinity, of this quantity times its complex conjugate, equal to 1. That process, known as normalization, arises from the Born rule, which states that the square of the magnitude of this quantity gives a probability density function. For a time-independent system, this quantity times an energy eigenvalue is equal to the Hamiltonian of this quantity. Upon being observed, this quantity collapses. For 10 points, name this quantity that describes the quantum state of a system.
ANSWER: **wavefunction**
<Physics>

12. This composer's musical revue *Jump for Joy* included many of his songs that later became hits, such as "I Got It Bad (and That Ain't Good)" and "A Drum Is a Woman." Mahalia Jackson's version of this composer's "Come Sunday," with lyrics, was taken from his extended jazz suite *Black, Brown and Beige*. After King Oliver turned down a regular gig, this man's ensemble became the house band of the Cotton Club. This frequent collaborator of Billy Strayhorn composed the standards "It Don't Mean a Thing" and "Mood Indigo." For 10 points, name this jazz pianist and bandleader whose orchestra often performed the jazz standard "Take the 'A' Train."
ANSWER: Duke **Ellington** [or Edward Kennedy **Ellington**]
<Other Arts>

13. This leader's prime minister was blown onto a church roof in a car bomb assassination carried out by a sepratist group opposed to this leader. This leader was advised by members of Opus Dei ("day"), who helped his country achieve a namesake economic "miracle" beginning in 1959. In 2019, the Pact of Forgetting was broken when this leader's remains were exhumed from the Valley of the Fallen. After launching a 1936 coup from North Africa, this leader received support from the Nazi Condor Legion and gained control over the Falange ("fuh-LAHN-hay") Party. This man proclaimed himself *caudillo* ("cow-DEE-yo") after winning a war against the Republicans. For 10 points, what fascist dictator took power after the Spanish Civil War?
ANSWER: Francisco **Franco**
<European History>

14. A song by this band is built around a guitar riff that starts with 2 quarter notes on B, an eighth rest, then eighth notes playing the first 3 notes of an ascending B minor scale. The London Bach Choir sings the first verse and chorus of a song by this band, whose first lyrics are "I saw her today at the reception." The title character of a samba-influenced song by this band introduces himself as "a man of wealth and taste" before taunting "hope you guessed my name!" This band's album *Let It Bleed* opens with the song "Gimme Shelter." For 10 points, name this rock band behind "Sympathy for the Devil" and "Paint It Black," whose members include Keith Richards and Mick Jagger.
ANSWER: The **Rolling Stones**
<Current Events/Geography/Other Academic/Pop Culture>

15. In a novel from this country, the title character has a French lover, Bernard Chabalier, and struggles to overcome the deaths of her mother Cathy Jansen and her activist father Lionel. In another novel from this country, the police do not bother investigating the dead body found on Mehring's farm. A character abandons her family in her houseboy's village and runs for an unknown helicopter in a novel from this country, which follows the liberal white Smales family during civil war. *Burger's Daughter* and *The Conservationist* are novels from this country, as is *July's People*. For 10 points, name this home country of Nadine Gordimer, who situated many of her books in its apartheid era.
ANSWER: **South Africa** [or **Suid-Afrika**]
<World/Other Literature>

16. During development and migration, these cells extend a growth cone which is guided by ephrins and semaphorins. Injury to these cells can cause chromatolysis ("cro-mat-oh-LYE-siss"), which destroys these cells' protein-producing Nissl bodies. These cells' namesake doctrine states that they are metabolically discrete and was proposed by Santiago Ramón y Cajal ("ka-HALL"). A silver staining technique used to visualize these cells was discovered by Golgi. Glia nourish these cells and produce a myelin sheath that helps them propagate action potentials. These cells communicate using synapses between their axons and dendrites. For 10 points, name these basic cells of the nervous system.
ANSWER: **neuron**s [or **nerve cell**s]
<Biology>

17. During this battle, the Baroness Riedesel took care of one side's soldiers. This battle was preceded by a failed expedition led by Barry St. Leger. During this battle, one of Daniel Morgan's riflemen killed the officer Simon Fraser. Fighting at this battle was centered around Bemis Heights and Freeman's Farm. A monument honors the leg that Benedict Arnold lost during this battle. In this battle, Horatio Gates captured an army led by John Burgoyne ("bur-GOYN"), spurring the creation of a Franco-American alliance. For 10 points, name this 1777 battle fought in upstate New York, a turning point of the American Revolution.
ANSWER: Battle of **Saratoga**
<American History>

18. As punishment for planning a revolt against Zeus, this figure was bound with golden chains and hung from Mount Olympus. When Cydippe ("sy-DIP-ee") asked this figure to bestow a gift upon Cleobis and Biton ("BY-ton"), this figure granted them a happy death. The Nephele ("NEF-uh-lee") was a cloud resembling this deity that was used to test Ixion ("ik-SY-on"). Hephaestus trapped this deity in a magical throne until he was given Aphrodite ("afro-DY-tee") as a wife. This deity honored Argus by putting his eyes on the peacock's feathers and sent a gadfly to pursue Io. This deity sought vengeance against Heracles and many of her husband's other illegitimate children. For 10 points, name this queen of the Greek gods.
ANSWER: **Hera**
<Mythology>

19. A character in this novel is compared to a gull "strong and wild, fond of the storm and the wind," while the speaker compares herself to a sand bird. A character in this novel is persuaded by a German immigrant to give up writing romantic stories for newspapers. This novel's protagonists receive a Christmas breakfast after giving their own to the starving Hummel family. At the end of this novel, the protagonist and her husband Professor Bhaer turn the estate Plumfield into a boys' school, where Marmee celebrates her sixtieth birthday. Meg, Jo, Beth, and Amy are the main characters of, for 10 points, what novel following the March sisters' growth into adulthood, a work by Louisa May Alcott?
ANSWER: ***Little Women***
<American Literature>

20. In a late unfinished sculpture, this artist depicted himself as Nicodemus, who struggles to support the body of the dead Christ. This artist inscribed his name followed by the words "Florent Faciebat" ("fa-chee-AY-bot") on a sash in his only signed work. The contorted figures of Night and Day lie on a sarcophagus below a seated Giuliano de Medici in a tomb by this artist. For the tomb of his patron Pope Julius II, this man sculpted a marble Moses that unusually has horns. A work by this artist that sparked controversy with its strangely youthful depiction of Mary is housed in St. Peter's Basilica. For 10 points, name this Renaissance sculptor of the *Pietà* ("pee-ay-TAH") and a marble *David*.
ANSWER: **Michelangelo** **Buonarotti** [accept either underlined portion]
<Painting/Sculpture>

Bonuses

1. Jean Cocteau directed a trio of films about this mythological figure, including one in which he travels through a mirror in search of his wife. For 10 points each:
[10] Name this mythological figure. Marcel Camus ("ka-MOO") directed a film named for a *Black* version of this character, and in another film a character suggests that this figure turned to look at his lover because she asked him to.
ANSWER: **Orpheus** [or **Orfeo** or **Orphée**]
[10] Héloïse suggests to Marianne that Eurydice might have asked Orpheus to look back in this Céline Sciamma film set in the late 18th century. In this 2019 film, a woman played by Adèle Haenel falls in love with a female artist painting a picture of her.
ANSWER: *__Portrait of a Lady on Fire__* [or *__Portrait de la jeune fille en feu__*]
[10] Marcel Camus's *Black Orpheus* is set during Carnival in the *favelas* of this country. The film's score uses this South American country's bossa nova music.
ANSWER: **Brazil**
<Other Arts>

2. A rigged referendum used to bring about this event featured a ballot with a large, centered "yes" circle and a smaller "no" circle to the right. For 10 points each:
[10] Name this 1938 event in which Nazi Germany annexed its southern neighbor. Kurt Schuschnigg ("SHOOSH-nig") was forced to resign for opposing this event.
ANSWER: **Anschluss** ("ON-sh'loose") [prompt on, but DO NOT REVEAL, descriptions like German annexation of Austria]
[10] The Anschluss involved the annexation of this neighbor of Germany, the birthplace of Adolf Hitler. The Stadttempel ("SHTOTT-temple") was the only synagogue in this country's city of Vienna to survive World War II.
ANSWER: **Austria** [or Republic of **Austria**]
[10] After the Anschluss, Germany moved towards annexing this majority German speaking region of Czechoslovakia. Its annexation was approved by the Munich Pact.
ANSWER: **Sudetenland**
<European History>

3. Seretse Khama ("seh-RET-say KAH-ma") helped create the largest mine in the world for this mineral, which is in Orapa. For 10 points each:
[10] Name this mineral mined by companies like De Beers. A namesake district in Antwerp is the worldwide hub for processing and trading this mineral.
ANSWER: **diamond**s [accept **Diamond** District or **Diamond** Quarter]
[10] De Beers was established in this South African town, where miners extracted diamonds from the 700-foot-deep "Big Hole." This city also names a certification system used to prevent the proliferation of "blood diamonds."
ANSWER: **Kimberley**, South Africa
[10] This country is now the largest producer of diamonds in the world, mostly due to substantial deposits in Siberia.
ANSWER: **Russia**
<Current Events/Geography/Other Academic/Pop Culture>

4. Answer the following about plant hormones, for 10 points each.
[10] This plant hormone signals for an increase in pressure in the guard cells of the stomata, decreasing rates of transpiration and preventing water loss. It also inhibits germination, promoting seed dormancy.
ANSWER: **abscisic acid** [or **ABA**, or **dormin**]
[10] This class of plant hormones promotes shoot elongation through a mechanism described by the acid growth hypothesis. The most abundant of these hormones found naturally is indole-3-acetic acid.
ANSWER: **auxin**s
[10] Auxins ("OX-ins") coordinate phototropism, a result discovered by this man in his experiments on grass coleoptiles ("co-lee-OP-tiles"). His earlier theories of evolution were published in works like *On the Origin of Species*.
ANSWER: Charles **Darwin**
<Biology>

5. In a story by this author, the piano teacher Miss Marsalles refuses to agree with the audience's ableist views. For 10 points each:
[10] Name this short story writer of "Dance of the Happy Shades." This writer is known for her sensitive depiction of female characters in her collection *Hateship, Friendship, Courtship, Loveship, Marriage*.
ANSWER: Alice **Munro** [accept Alice **Laidlaw**]
[10] Munro is associated with the "Southern Ontario" form of this genre. She is often compared to an American short story writer in this genre, the author of "A Good Man Is Hard to Find."
ANSWER: **Gothic** [accept Southern Ontario **Gothic** or Southern **Gothic**]
[10] Like other Southern Ontario Gothic authors, Munro is from this country.
ANSWER: **Canada**
<World/Other Literature>

6. In a film made at this studio, a rehearsal by the Velvet Underground and Nico is disrupted by the NYPD. For 10 points each:
[10] Name this studio, which was the site of an assassination attempt by the author of the SCUM manifesto. The artist who ran this studio created the cover art for the Velvet Underground and Nico's self-titled album.
ANSWER: The **Factory**
[10] The Factory was run by this pop artist, who included 50 images of Marilyn Monroe in his *Marilyn Diptych* and created many paintings of Campbell's soup cans.
ANSWER: Andy **Warhol**
[10] Many of Warhol's most famous works were created using this process, which uses a namesake fine mesh fabric to transfer ink.
ANSWER: **silkscreen** printing [or **screen** printing; or **serigraphy**; prompt on printing or stenciling]
<Painting/Sculpture>

7. After declaring his heart was "sick and sad," this leader surrendered, saying "I will fight no more forever." For 10 points each:
[10] Name this Native American leader who surrendered to the forces of Nelson Miles after unsuccessfully trying to reach Canada.
ANSWER: Chief **Joseph** [or Young **Joseph**; or **Joseph** the Younger; or **Hin-mah-too-yah-lat-kekt**]
[10] After his capture, Chief Joseph and other members of his Nez Perce ("purse") tribe were imprisoned in this state's Fort Leavenworth. This Plains state was called "Bleeding" amid conflict between pro- and anti-slavery forces in the 1850s.
ANSWER: **Kansas**
[10] Nelson Miles also captured a leader of this tribe at Skeleton Canyon. That man, Geronimo, led this tribe in its namesake wars for land in the southwest.
ANSWER: **Apache** [or **Apache** Wars]
<American History>

8. This bird is described as a "light-winged Dryad of the trees" that "singest of summer in full-throated ease" in a poem that addresses it. For 10 points each:
[10] Name this bird, to which the narrator repeatedly bids "Adieu!" and asks "Do I wake or sleep?" An "Ode to" this bird begins with the revelation that "My heart aches, and a drowsy numbness pains my sense."
ANSWER: **nightingale** [accept "Ode to a **Nightingale**"]
[10] This poet, a contemporary of John Keats, wrote "Hail to thee, blithe Spirit!" in their poem "To a Skylark." This poet's other works include "The Mask of Anarchy" and "Ozymandias."
ANSWER: Percy Bysshe **Shelley**
[10] Thomas Hardy tells of "Some blessed Hope, whereof he knew / And I was unaware" in a poem titled for this bird. That poem titled for this bird begins "I leant upon a coppice ("COP-iss") gate."
ANSWER: **thrush** [accept "The Darkling **Thrush**"]
<British Literature>

9. The modern model for this class of particles was developed out of the Eightfold Way. For 10 points each:
[10] Name these particles that combine to form hadrons ("HAD-drons"). These particles have six flavors, including "strange" and "charm."
ANSWER: **quark**s
[10] Quarks are never found in isolation due to their "confinement" based on this quantity. The existence of this quantity allows the strong force to act on quarks.
ANSWER: **color** charge [accept **color** confinement; do not accept or prompt on "charge"]
[10] In quantum chromodynamics, these other particles also exhibit color confinement. These particles have a color and an anticolor, and they mediate the strong force.
ANSWER: **gluon**s
<Physics>

10. Answer the following about goats in Norse mythology, for 10 points each.
[10] The goat Heidrun ("HAY-droon") produces this substance for residents of Valhalla. Another form of this beverage in Norse mythology was made from the blood of Kvasir and granted drinkers poetic inspiration.
ANSWER: **mead**
[10] Thialfi ("th'YAHL-vee") became a servant of this son of Odin after crippling one of his goats. This Norse thunder god used two goats to pull his chariot and often ate the goats at night before resurrecting them the next morning.
ANSWER: **Thor**
[10] As part of a concession to this jötunn ("YOH-tun"), Loki tied his testicles to a goat to make her laugh. The gods appeased this jötunn after killing her father Thiazi ("THEE-ah-zee") by also allowing her to marry the god Njord ("n'yord").
ANSWER: **Skadi**
<Mythology>

11. Answer the following about the music in the Disney film *Fantasia*, for 10 points each.
[10] In one *Fantasia* scene, Mickey Mouse brings brooms to life with magic while *The Sorcerer's Apprentice*, a piece by this French composer, plays.
ANSWER: Paul **Dukas** ("doo-KAHSS")
[10] After *The Sorcerer's Apprentice*, *Fantasia* plays selections from this modernist ballet's score to scenes of the Earth's beginnings. This Igor Stravinsky ballet that begins with a high bassoon solo caused a riot at its Paris premiere.
ANSWER: *The **Rite of Spring*** [or Le ***Sacre du Printemps***]
[10] Near the end of the film, the midnight devil Chernabog awakens to *Night on Bald Mountain*, a piece revised by Rimsky-Korsakov and arranged by Leopold Stokowski, but originally written by this composer.
ANSWER: Modest **Mussorgsky**
<Classical Music>

12. This man cryptically replied "just watch me" when asked how far he would go to stop terrorism. For 10 points each:
[10] Name this Prime Minister whose time in office saw the October Crisis and the passage of the Official Languages Act, which gave official recognition to both French and English.
ANSWER: **P**ierre **Trudeau** [or **P**ierre Elliot **Trudeau**; prompt on Trudeau]
[10] Pierre Trudeau served as Prime Minister of this North American country currently led by his son Justin.
ANSWER: **Canada**
[10] In response to the October Crisis, Pierre Trudeau controversially invoked this act in 1970. This act allows for the Canadian government to suspend civil liberties including habeas corpus in times of conflict.
ANSWER: **War Measures** Act [accept Loi sur les **mesures de guerre**]
<Other History>

13. This book reflects on disillusionment with educational systems by noting "if the streets shackled my right leg, the schools shackled my left." For 10 points each:
[10] Name this book inspired by James Baldwin's *The Fire Next Time*. This 2015 book explores the "racist violence that has been woven into American culture" and is framed as a letter to the author's son Samori.
ANSWER: ***Between the World and Me***
[10] This author of *Between the World and Me* wrote a surrealist novel set in the pre-Civil War south titled *The Water Dancer*. This author included essays such as "The Case for Reparations" in their essay collection *We Were Eight Years in Power*.
ANSWER: Ta-Nehisi **Coates**
[10] The collection *We Were Eight Years in Power* is based on essays published in *The Atlantic*, during the administration of this first Black president of the United States.
ANSWER: Barack **Obama**
<American Literature>

14. This method was historically called the self-consistent field method because it iteratively solves Schrodinger's equation until the energy converges. For 10 points each:
[10] Name this method, the starting point for most current approaches in computational chemistry. Variants of it that account for electron repulsion are known as *post*-this method.
ANSWER: **Hartree–Fock** method
[10] The Hartree–Fock method is applied to find these functions, which are obtained as linear combinations of functions labelled *s*, *p*, *d*, and *f*. These functions are labelled with a star if they are antibonding.
ANSWER: **molecular orbital**s [or **MO**s; prompt on orbitals; prompt on wavefunctions; do not accept or prompt on "atomic orbitals"]
[10] The Hartree–Fock method relies on the Born–Oppenheimer approximation, which assumes that this part of the atom does not move. This structure, composed of protons and neutrons, is at the center of the atom.
ANSWER: atomic **nucleus**
<Chemistry>

15. A philosopher called these texts "the production of the highest human wisdom" and discussed them in his *Parerga and Paralipomena*. For 10 points each:
[10] Name these texts discussed by Arthur Schopenhauer in other works such as *The World as Will and Representation*. He frequently used the phrase "that thou art," which he drew from a translation of these texts.
ANSWER: the **Upanishads** [accept Chandogya **Upanishad**]
[10] Schopenhauer discussed the "dilemma" of this type of animal in *Parerga and Paralipomena*. This animal is the first title animal in an essay that used it to describe philosophers who changed the world with one defining idea.
ANSWER: **hedgehog** [or **porcupine**; accept **hedgehog**'s dilemma; accept *The **Hedgehog** and the Fox*]
[10] This philosopher claimed that Schopenhauer was one of the few philosophers he truly respected in *Untimely Meditations*. He is better known for works like *The Gay Science* and for developing the concept of the Ubermensch.
ANSWER: Friedrich Wilhelm **Nietzsche** ("NEE-chuh")
<Philosophy/Social Science>

16. During one battle, this ruler's use of gunpowder terrified enemy war elephants. For 10 points each:
[10] Name this ruler who defeated forces under Ibrahim Lodi at the First Battle of Panipat. This ruler was succeeded by his son Humayun ("HOOM-ah-yoon").
ANSWER: **Babur** [or Zahīr ud-Dīn Muhammad **Babur**]
[10] Babur launched several campaigns to capture this city, but was defeated by Muhammad Shaybani. This capital of the earlier Timurid Dynasty served as an important stop along the Silk Road.
ANSWER: **Samarkand**
[10] Babur founded this empire whose other rulers included Akbar and Shah Jahan. This empire was dismantled by Britain after the Sepoy Mutiny in 1857.
ANSWER: **Mughal** Empire
<World History>

17. This school of thought gives the name Ein-Sof ("ane-SOHF") to the infinite aspect of God. For 10 points each:
[10] Name this mystical tradition whose foundational text is the Zohar, a commentary on the Torah believed to have been written by Moses de León.
ANSWER: **Kabbalah**
[10] The Kabbalah is a school of mysticism found in this religion, the majority religion of Israel.
ANSWER: **Judaism**
[10] The rabbi who founded this tradition, the Ba'al Shem Tov ("BAH-all SHEM tove"), said that true mysticism is not the Kabbalah, but is instead a sense of oneness. Male members of this ultra-orthodox tradition wear dark overcoats and usually have uncut sidelocks.
ANSWER: **Hasidic** Judaism [or **Hasidism**]
<Religion>

18. This logical operation is also known as a Sheffer stroke. For 10 points each:
[10] Name this logical operator that outputs true when either of its inputs is false, and outputs false when both of its inputs are true.
ANSWER: **NAND** ("nand") [or **not-AND**]
[10] NAND is known as this type of logic gate, meaning that every other logic gate can be constructed out of Boolean expressions of it. Because of this, AND gates are usually implemented as NAND gates with an inverter.
ANSWER: **universal** logic gate [accept **functionally complete** or **functional completeness**; prompt on complete_ness]
[10] The NAND gate also names a type of this storage device that is used in flash drives. This device also has read-only and random-access types.
ANSWER: computer **memory** [accept (NAND) flash **memory**; accept read-only **memory**; accept random-access **memory**; prompt on ROM or RAM by asking "what does that stand for?"]
<Other Science>

19. This thinker dedicated a work to "socialists of all parties," and controversy surrounds his portrayal of socialism in the book *The Fatal Conceit*. For 10 points each:
[10] Name this thinker who argued in a 1944 work that socialism's reliance on state planning makes it inherently susceptible to authoritarian forms of government.
ANSWER: Friedrich August von **Hayek** [or F. A. **Hayek**]
[10] Hayek's *The Road to Serfdom* is viewed as a foundational text of this school of thought. This school of thought believes in minimizing government and maximizing individual freedom.
ANSWER: **libertarian**ism
[10] Hayek rejected the term libertarian in favor of a school of Whiggism named for this conservative thinker. This thinker is often regarded as the father of modern conservatism and wrote *A Vindication of Natural Society*.
ANSWER: Edmund **Burke**
<Philosophy/Social Science>

20. In a play by this author, a fictional Chicago mobster named Arturo Ui ("OO-ee") ruthlessly takes control of the cauliflower business. For 10 points each:
[10] Name this playwright, who also wrote *The Caucasian Chalk Circle*. In another play by this author, accompanied by Kurt Weill's ("vile's") music, Mack the Knife ends up marrying Polly Peachum.
ANSWER: Bertolt **Brecht**
[10] A proponent of "epic theatre," Brecht also coined this concept, which prevents the audience from simply identifying itself with the play's characters. Disruption of the fourth wall is a key way to achieve this effect, which Brecht first discussed in an essay on Chinese acting.
ANSWER: **alienation** effect [or **distancing** effect or **estrangement** effect]
[10] In a satirical poem, Brecht wrote about an author who was angry that one of these items of his had not been chosen for burning. Heinrich Heine ("HIGH-nuh") predicted that those who burn these literary items will in the end burn people.
ANSWER: **book**s [or **Buch** or **Bücher**]
<European Literature>