

IMSANITY

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Tossups

- (1) In one work, this thinker argued that statements gave propositions, utterances, and speech acts meaning. Another work analyzes the classical and modern episteme, the history of scientific truth, and opens with a discussion of Velazquez's *Las Meninas*. In addition to writing *The Archaeology of Knowledge* and *The Order of Things*, this thinker claimed that doctors separated a patient's body from his humanity in a concept called "medical gaze" in *The Birth of the Clinic*. He also discussed Bentham's Panopticon design in *Discipline and Punish*. FTP, name this French philosopher, the author of *Madness and Civilization*.

ANSWER: Michel Foucault

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- (2) He tried to embody the repetitive nature of Shaker music as well as the rippling of water in his string septet *Shaker Loops*. One of his works commemorates the victims of the 9/11 attacks and won him a Pulitzer Prize in 2003. Missing person reports, internet postings, and cell phone conversations comprise that piece, * "On the Transmigration of Souls". His most famous opera features a series of Chairman Dances as it follows the title character on his visit to an Asian nation led by Mao Zedong and Zhou Enlai. FTP, name this minimalist composer of *Nixon in China*.

ANSWER: John Coolidge Adams

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- (3) Its capital city of Petropavlovsk was attacked by British and French forces in 1854 as part of the Crimean War. Its namesake strait separates the mainland from the Commander Islands, which were named in honor of Vitus Bering. Located to the east of the Sea of Okhotsk, the flag of this region features three volcanoes in the upper left corner, and the volcanoes of this region have been named a * UNESCO World Heritage Site. Bordered on the east by the Bering Sea and the Pacific Ocean, FTP, name this peninsula of eastern Russia which juts south toward Japan.

ANSWER: Kamchatka

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- (4) This event was coordinated by Craig Minassian and Chris Wayne, and it was held in response to a similar event led by Glenn Beck. It was first publicized when one of its hosts said that he would “have an announcement sometime in the near to not-so-near future”. The other host gave out Chinatown bus tickets to the event, while Oprah Winfrey gave out free airline tickets to attend the rally. * Jon Stewart encouraged signs reading “I disagree with you, but you’re still a human being”, while co-host Stephen Colbert asserted that such reasonableness was not in order. FTP, name this satirical rally which took place on October 30, 2010 in Washington, D.C. in an effort to give non-extremists a political voice.

ANSWER: Rally to Restore Sanity and/or Fear (accept March to Keep Fear Alive)

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- (5) The speaker of this poem claims that after he heard one of the title characters “speak out loud and bold”, he felt like a “watcher of the skies/when a new planet swims into his ken”. The speaker talks about how others have told him that the “deep-browed” title character “ruled as his * demesne”. He has been to many “goodly states and kingdoms” and “western islands”, places he refers to as “realms of gold”. The speaker feels like “stout Cortez” looking out to the vast Pacific “with a wild surmise/silent, upon a peak in Darien”. FTP, name this poem about the titular man’s translations of the works by the author of *The Iliad*, written by John Keats.

ANSWER: On First Looking into Chapman’s Homer

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- (6) The structure of this mineral is divided into alpha and beta varieties, though both show chiral crystal structures. The synthetic form of this mineral is produced via the hydrothermal method. Colored types develop when trace amounts of elements are present, an example of which is manganese contributing the purple * tint of Amethyst. Its crystalline structure makes it the simplest silicate, while it is also the second most abundant in the Earth’s surface. Found on the Mohs scale as a seven, FTP, name this mineral often found in watches.

ANSWER: quartz

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- (7) **This man's father Zhuangxiang was brought to the throne by Lu Buwei, and would reign until a scandal involving an attempted coup Lao Ai brought this man into power. This man fought off an assassination attempts by Jing Ke and Gao Jianli. This man outlawed feudalism at the urging of his advisor * Li Si, who also convinced this emperor to make Legalism the official philosophy, bury hundreds of Confucian philosophers alive, and burn almost every book in the empire. The dynasty this man founded to end the Warring States Period collapsed soon after his death. FTP, name this unifying Chinese emperor who built the Terracotta Army and the Great Wall of China.**

ANSWER: Qin Shi Huang Di or Ying Zheng

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- (8) **The protagonist can be heard singing the Siciliana offstage before entering the main square of the village. He returns from military service to live and work with his mother in her wine shop. However, he finds that his fiancé had married Alfio in his absence. In revenge, Turiddu seduces Santuzza, and, overcome with jealousy, Lola begins an affair with Turridu. Santuzza confesses the affair to Lucia in * "Voi lo sapete." In high spirits, Turiddu drinks with his friends and sings "Viva, il vino spumeggiante" to greet Alfio. Alfio challenges him to a duel and ultimately kills him in, FTP, what opera in one act by Pietro Mascagni?**

ANSWER: Cavalleria rusticana or Rustic Chivalry

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- (9) **This is the maximum value of the minimum degree of a finite planar simple graph and the smallest number of vertices in a non-planar graph. This number is the smallest degree of a polynomial which cannot be solved in radicals. In geometry, this is the number of faces meeting at each vertex in the * icosahedron, and hence, by duality, is the number of sides on each face of the dodecahedron. FTP, identify this number, the number of Platonic solids.**

ANSWER: 5

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- (10) **While not the first to observe it, this man did coin the term “diamagnetism”. His namesake effect causes waves to be decomposed into two circularly polarized rays which move at different speeds, causing light waves to rotate in the presence of an electromagnetic force.*** One of this scientist’s laws states that the amount of electromotive force generated is directly proportional to the rate of change of magnetic flux. Known for first isolating benzene as well as for his eponymous Law of Induction, FTP, name this nineteenth-century British physicist and chemist, the namesake of the SI unit for capacitance.

ANSWER: Michael Faraday

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- (11) **At the beginning of this work, it is discovered that the sister of the protagonist has been skipping classes at Rubicam’s Business School to go to the zoo, and that as a teenager she had suffered from pleurosis, which earned her a colorful nickname. The protagonist invites Jim O’Connor to dinner with that sister, *** Laura, whom Jim kisses after breaking the horn off of her unicorn figurine. Laura’s mother requests that Jim be Laura’s suitor, and proudly recounts the day in her youth that she had entertained seventeen gentleman callers. FTP, name this play about Tom and Laura Wingfield and their mother Amanda, written by Tennessee Williams.

ANSWER: The Glass Menagerie

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- (12) **The only remaining nations exemplifying this form of government are Oman and Brunei. Although the ruler in this regime gains religious authority, he need not be a religious leader himself. In the 10th century, the Turkmen chief Mahmud of Ghanzi became the first to claim the title as leader of one, while the Moroccan royal family claimed its eponymous title in the 17th century. With responsibilities outlined in the *** Quran, its leaders claim sovereignty over a portion of land within a caliphate. FTP, identify this type of government used by the Ottoman Empire until 1922.

ANSWER: sultanate

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- (13) **Bessel's correction is used to make this kind of variance an unbiased estimator. This can be effectively done in clusters or in strata, but the convenience method is frowned upon. Its namesake *** proportion is the best point estimate of the success probability. The effect of its namesake size on its namesake mean is the subject of the Law of Large Numbers, and its namesake space consists of all possible measured events. Referring to either a representative subgroup of a population or to data from that subgroup, FTP, identify this term for the collecting of information for statistical analysis.

ANSWER: sample (accept "sampling")

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- (14) **The Class I variety of these differs from the Class II variety in that they utilize reverse transcriptase in translocation instead of another enzyme to move directly within the genome. It has been recognized by some researchers that retroviruses can be considered a specialized form of these DNA segments. They were first discovered in Zea Mays, a type of *** corn, when their discoverer noted a change in the color of its kernels; this is unsurprising as the corn genome may consist of up to fifty percent of these genes. FTP, name these "jumping genes" discovered by Barbara McClintock.

ANSWER: transposons

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- (15) **The literal meaning of it is "to wander around," and it is through this cycle that people can be reborn as animal and plant life. It is described as an endless mundane existence that one should seek to escape through moksha in Jainism, and in *** Buddhism, it is regarded as the cycle of suffering whose eradication is the religion's main goal. Its meaning refers to the collective consciousness a being experiences while alive, and it is used often to allude to the existence of the physical world. FTP, name this term in Hinduism, Buddhism, and Jainism which refers to the continual cycle of life, death, and reincarnation.

ANSWER: samsara

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- (16) One author from this country described the relationship between Senor C and Anya in *Diary of a Bad Year*. Another novel from this country features the light-skinned Zachariah harboring disdain for his darker-skinned step-brother, Morris. “The Defiance Campaign” and “Into the Golden Age” are the parts of yet another work from this nation. In addition to *The * Blood Knot*, this country features a retelling of Robinson Crusoe in *Foe* as well as a work about the titular hare-lipped gardener who escapes from a hospital in Cape Town. FTP, name this country whose works include *The Life and Times of Michael K* and *Ah, But Your Land is Beautiful*, the home to authors Athol Fugard, John Coetzee, and Alan Paton.

ANSWER: South Africa

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- (17) In the 1970s, Thurston proved that each of these is either hyperbolic or is of the torus or satellite types. The chirality of these objects can be used to study that of certain molecules. Two of these objects are equivalent if one can be transformed into the other through a sequence of Reidemeister moves. They can be distinguished by their associated polynomials, such as the Alexander, Jones, and HOMFLY, or by the * Gordian distance between them. FTP, name these closed one-dimensional surfaces embedded in three-dimensional space, popular examples of which are the pretzel, trefoil, and figure-eight.

ANSWER: knot

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- (18) This artist recreated a portion of his most famous painting in one of his works showing three nude figures changing clothes, *The Models*. In another one of his works, he showed a group of musicians playing in the foreground while several figures perform high kicks in his *Le Chahut*. He depicted a group of people spending leisure time in the River Seine * in his *Bathers at Asnieres*. FTP, name this artist who, along with Paul Signac, developed the technique of pointillism and used it to create *A Sunday Afternoon on the Island of La Grande Jatte*.

ANSWER: Georges Seurat

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- (19) **He wrote about flight instructor Bessing taking credit for a successful flight by Cadet Thompson in “Landing in Luck”. Vinson Gowrie is killed by his own brother but a black farmer, Lucas Beauchamp, is accused in his *Intruder in the Dust*. He also wrote about tenant farmers Flem and Ab * Snopes in *The Hamlet*. This author of *Soldier’s Pay* also wrote about carriage races on the way to church as well as slave fights held by the Sutpens, much to the Coldfields’ horror. The murderer of Joanna Burden is later killed by Percy Grimms in another novel by, FTP, this stream-of-consciousness author of *Absalom, Absalom!* and *Light in August*.**

ANSWER: William Faulkner

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- (20) **This scientist conducted an experiment in which he used a calorimeter to measure heat production due to the respiration of a guinea pig. He recognized the existence of hydrogen, and proposed that oxygen was the source of acidity. * He used the existence of oxygen in the air to disprove phlogiston theory, and gave the first Law for Conservation of Mass. Later in his life, he was branded a traitor during the Reign of Terror. FTP, name this scientist who wrote *Elementary Treatise on Chemistry* and is the father of modern chemistry.**

ANSWER: Antoine Laurent de Lavoisier

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- (21) **This man delivered the “Higher Law” speech against the Compromise of 1850, arguing that slavery and the Fugitive Slave Act were morally wrong. Lewis Powell attempted to assassinate this man while he was recovering from a carriage accident on April 14, 1865. This man was the favorite to win a presidential nomination , but opposition from * Horace Greeley caused him to lose it on the third ballot to Abraham Lincoln. While serving as Secretary of State for Lincoln and Johnson, this man helped resolve the Trent affair. FTP, name this American politician best known for negotiating the purchase of Alaska in his namesake folly.**

ANSWER: William Henry Seward, Sr.

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Bonuses

(1) Answer the following about a chemical relation FTPE:

[10] Compounds with the structural type of this relation have the same molecular formula, but have their atoms arranged in different orders.

ANSWER: isomerism

[10] Enantiomers are a pair of stereoisomers with this property. A molecule with this property is non-superimposable on its mirror image.

ANSWER: chirality

[10] This term describes an equimolar mixture of a pair of left- and right-handed enantiomers of a chiral molecule.

ANSWER: racemate or racemic mixture

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(2) He edited an underground paper, *Combat*, supporting the efforts of the French Resistance during World War II. FTPE:

[10] Name this French author, the winner of the 1957 Nobel Prize in Literature. Though he is often called an existentialist, he claimed that he was not one.

ANSWER: Albert Camus

[10] This novel by Camus centers on the stoic Meursault, who is sentenced to death for killing an Arab.

ANSWER: The Stranger or L'Etranger

[10] In this essay, Camus argued that the titular character from Greek mythology was a hero of absurdist philosophy.

ANSWER: The Myth of Sisyphus or Le Mythe de Sisyphe

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(3) Answer the following about a labor movement incident FTPE:

[10] On May 4, 1886, rallies took place at this Chicago marketplace in favor of an eight-hour workday. Eight anarchists were put on trial for murder after someone threw a bomb at police.

ANSWER: Haymarket Square (accept any equivalents that include "Haymarket")

[10] This labor organization, started in 1869, began its decline after the Haymarket Square riots. Its "Grand Master Workman" Terence Powderly opposed Chinese immigration.

ANSWER: Noble and Holy Order of the Knights of Labor

[10] This anarchist was convicted of murder and hanged, even though he was on stage giving a speech when the bomb was thrown. He had claimed during the speech that the protests were peaceful.

ANSWER: August Spies

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(4) Yellow, red, and white flames light up the remnants of a plane that has been struck by rockets in this painting. FTPE:

[10] Name this work of pop art, which features a pilot in a fighter plane who “pressed the fire control and ahead of me rockets blazed through the sky...”

ANSWER: Whaam!

[10] *Whaam!* was created by this artist, who also created a work in which a teary-eyed blue-haired woman is mostly submerged in rough waters, and would “rather sink than call Brad for help” in his *Drowning Girl*.

ANSWER: Roy Lichtenstein

[10] Lichtenstein used this technique in many of his works. Depending on the spacing, size, and amount of overlap, different colors could be created, inexpensively creating secondary colors.

ANSWER: Ben-Day dots

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(5) In May 2009, American John Yettaw swam across Lake Inga to get to her house, prompting the arrest of both. FTPE:

[10] Name this revolutionary leader, held under house arrest until November 13, 2010 by the military junta of her home country. She won the 1991 Nobel Peace Prize “for her non-violent struggle for democracy and human rights”.

ANSWER: Aung San Suu Kyi

[10] Suu Kyi lives in this country, bordered to the west by India and Bangladesh and to the west by Thailand.

ANSWER: Myanmar (also accept Burma)

[10] In 2008, the capital of Myanmar was moved to Naypidaw. Until 2005, the capital had been located in this largest city of that country.

ANSWER: Rangoon or Yangon

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(6) Answer the following about set theory FTPE:

[10] This is the term for a set contained in another set. Specifically, if set A is this in relation to set B , then every element of A is also an element of B .

ANSWER: subset

[10] This adjective describes a subset of B which is not equal to B .

ANSWER: proper or strict

[10] This set is a subset of every set.

ANSWER: emptyset

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(7) He gave original English translations of *History of the Peloponnesian War* as well as *The Iliad* and *The Odyssey*. FTPE:

[10] Name this English philosopher and author of *The Elements of Law, Natural and Politic*.

ANSWER: Thomas Hobbes

[10] Hobbes's most famous work was this 1651 book, which was divided into the four parts *Man, Of Commonwealth, Of a Christian Commonwealth*, and *Of the Kingdom of Darkness*. It stated that life was "solitary, poor, nasty, brutish, and short".

ANSWER: Leviathan or The Matter, Form and Power of a Common Wealth Ecclesiastical and Civil

[10] *Leviathan* was an early proponent of this theory that people enter into its eponymous agreement with governments, giving up freedoms in exchange for order.

ANSWER: social contract theory or contractarianism

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(8) This quantity explains why neutron stars spin very quickly due to a dramatic decrease in their radius. FTPE:

[10] Name vector quantity, often denoted L, which is given in units of Newton meter seconds. It is conserved in the absence of torque.

ANSWER: angular momentum (also accept moment of momentum)

[10] This quantity, when multiplied by angular velocity, gives angular momentum. It is usually calculated as a constant multiplied by $m r$ squared.

ANSWER: first mass moment of inertia or angular mass or rotational inertia

[10] The moment of inertia for a sphere about its central axis is this constant multiplied by $m r$ squared.

ANSWER: $2/5$ (accept any equivalents)

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(9) It was introduced in its namesake's book *On Death and Dying*. FTPE:

[10] Also known as the Five Stages of Grief, this eponymous model describes the process people go through upon learning of loss.

ANSWER: Kübler-Ross model

[10] In the Kübler-Ross model, this defensive reaction is the first stage of grief.

ANSWER: denial

[10] In this final stage of the Kübler-Ross model, the individual comes to terms with their impending loss.

ANSWER: acceptance

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(10) This work opens with a parrot shouting “Allez-vous-en! Allez-vous-en! Sapristi!” and the protagonist is moved by Mademoiselle Reisz’s piano playing. FTPE:

[10] Alcée Arobin and Robert Lebrun are two of the lovers of Edna Pontellier, who eventually commits suicide by drowning, in this novel.

ANSWER: The Awakening

[10] This author of *The Awakening* also wrote about Calixta and Alcée’s affair while Bobinôt goes out to buy shrimp in “The Storm” as well as a short story in which the titular adopted daughter is exiled for being part black.

ANSWER: Kate Chopin

[10] In this other Chopin short story, Louise Mallard is excited to learn that her husband was killed in a railroad accident, only to learn after the titular time period that her husband was alive, which prompted her death.

ANSWER: Story of an Hour

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(11) Answer the following about one of the most popular yet least functional operators in computer programming.

[10] When this two-character string representing this operator follows C, it names an object-oriented programming language first released in 1985.

ANSWER: ++

[10] The string ++ does this to a variable it is applied to.

ANSWER: increments or adds one (accept equivalents)

[10] If p initially has the value 3 and q has the value 5, give the value of the p after the command $p = q + +$ [p equals q plus plus] is run.

ANSWER: 5

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(12) Answer these questions relating to transcription and translation FTPE:

[10] Name this enzyme, essential for transcription, responsible for synthesizing mRNA. It was discovered in 1960 by Weiss, Hurwitz, and Stevens independently.

ANSWER: RNA polymerase

[10] After the pre-mRNA strand is synthesized, these nitrogenous bases are added on to the 3 prime end, forming a long tail, to help stabilize the mRNA. They pair with thymine bases in DNA.

ANSWER: adenine

[10] This sequence, named after two Australian scientists, is the site of ribosomal binding in prokaryotes.

ANSWER: Shine-Dalgarno Sequence or Box

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(13) It is currently the eighth most performed opera in the United States. FTPE:

[10] Identify this Mozart opera in which Pamina is ordered to kill Sarastro and Tamino uses the titular instrument to summon Papageno.

ANSWER: The Magic Flute or Die Zauberflöte

[10] One highlight of *The Magic Flute* is the aria “Der Hölle Rache kocht in meinem Herzen” sung by this soprano female antagonist. The role is famed for the technical difficulty of several of her arias, especially the aforementioned.

ANSWER: Queen of the Night

[10] The libretto for *The Magic Flute* was written by this family friend of Mozart and builder of the Theater an der Wien. He assumed the role of Papageno in the premiere performance.

ANSWER: Emanuel Schikaneder

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(14) Answer the following about propositional logic FTPE:

[10] For a proposition P IMPLIES Q, this is the name for the statement NOT Q IMPLIES NOT P. It is logically equivalent to the original, and is employed in indirect proofs.

ANSWER: contrapositive or contraposition

[10] This is the name for a logical proposition which is universally true, such as P IMPLIES P.

ANSWER: tautology

[10] This is the principle defined by the tautology P OR NOT P whose name indicates the lack of a third possibility.

ANSWER: Principle or Law of the Excluded Middle

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(15) “Before my bed there is bright moonlight/So that it seems like frost on the ground” begins his poem “Quiet Night Thoughts”. FTPE:

[10] “The River Merchant’s Wife” is a poem of this famous Tang poet who also wrote “Drinking Alone” and “For Wang Lun”.

ANSWER: Li Bai (accept Li Po, Li Bo and other close transliterations and accept in either order)

[10] This American author famously wrote a translation for Li Bai’s “The River Merchant’s Wife” in addition to writing *Ripostes* and *The Cantos*.

ANSWER: Ezra Pound

[10] This other famous Tang poet and contemporary of Li Bai wrote “Sighs of Autumn”, “Reply to a Friend’s Advice”, and “The Song of the Wagons”.

ANSWER: Du Fu (accept Tu Fu, accept in either order)

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(16) Answer these questions about a Greek city-state FTPE:

[10] An ally of Sparta and Corinth, this Greek city-state in Sicily was conquered by the Romans in 212 BC.

ANSWER: Syracuse

[10] The first Punic War developed out of a conflict between Syracuse and this group of rogue mercenaries named after a god of war. They share their name with a prison in Rome that once held Vercingetorix.

ANSWER: Mamertines

[10] This tyrant ruled Syracuse for sixty years. He switched from the Carthaginian to the Roman side in the First Punic War, and died during the Second. According to a famous story, this king asked Archimedes to test if he had been cheated by the goldsmith who made his crown.

ANSWER: Hiero II

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(17) Answer the following about a type of matter FTPE:

[10] Name this variety of matter that cannot be directly observed and accounts for most of the mass in the universe.

ANSWER: dark matter

[10] These massive hypothetical particles interact by the weak nuclear force and gravity. Since they don't interact with electromagnetism, they cannot be detected directly, and they are a possible explanation for the dark matter problem.

ANSWER: WIMPs or weakly interacting massive particles

[10] The presence of dark matter explains the differential rotation curves of these massive objects. MACHOs may also explain the evident presence of dark matter in the halos of these astronomical bodies.

ANSWER: galaxies

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(18) Answer the following about the collection *Twice-Told Tales* FTPE:

[10] In this story, Reverend Clark prays for the title character as he dies, and Goodman Gray exclaims that Parson Hooper has gone mad when they notice he is wearing the title object, a metaphor for all the dark secrets that humans hide in their hearts.

ANSWER: The Minister's Black Veil

[10] "The Minister's Black Veil" was written by this author, who also penned "Rappaccini's Daughter" and compiled his short stories "Wakefield", "The White Old Maid", and "The Gray Champion" in the *Twice-Told Tales*.

ANSWER: Nathaniel Hawthorne

[10] In this short story from *Twice-Told Tales*, Colonel Killigrew, Mr. Medbourne, and Mr. Gascoigne fight over the beautiful Widow Wycherly after they all test the title character's "fountain of youth", which makes anyone who drinks it younger.

ANSWER: Dr. Heidegger's Experiment

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(19) Identify the following doctrines from Christianity FTPE:

[10] Deriving its name from a passage in Song of Solomon, this Catholic dogma states that Mary was not born of original sin.

ANSWER: immaculate conception

[10] Meaning "embodied in flesh", this doctrine asserts that at the conception of Christ, the son of God took human form, uniting human and divine.

ANSWER: incarnation

[10] Defined by the Council of Trent, this is the process in which, during Holy Communion, the bread and wine change into the body and blood of Christ.

ANSWER: transubstantiation

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(20) Identify the following financial publications FTPE:

[10] This daily newspaper, owned by Dow Jones & Company, has the largest circulation in the United States. It is named for the financial district in New York.

ANSWER: Wall Street Journal

[10] This editor-in-chief of an eponymous biweekly magazine famous for its list of the 400 Richest Americans finished 3rd in the Republican primaries for the 1996 United States presidential election.

ANSWER: Steve Forbes

[10] This London-based rival of the Wall Street Journal has a wider circulation abroad than in the United Kingdom and is notably for the light pink paper on which it is printed.

ANSWER: Financial Times

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(21) Name some things about an opera FTPE:

[10] Octavian falls in love with Sophie Faninal after giving her the titular flower on the behalf of Baron Ochs in this opera.

ANSWER: Der Rosenkavalier or The Cavalier of the Rose or The Knight of the Rose

[10] This German composer of *Der Rosenkavalier* also composed *Salome*, *Death and Transfiguration*, and *Thus Spake Zarathustra*.

ANSWER: Richard Strauss

[10] Another man with the last name “Strauss,” Johann Strauss the Younger, composed this popular waltz about the titular German river.

ANSWER: On the Beautiful Blue Danube or An der Schönen Blauen Donau

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