



1. In this novel, it is revealed that Debray gives confidential information to his lover to help her invest her husband's money in stocks. That accusation is dealt with by Villefort (vee-yuh-FORT), who realizes a letter given to this novel's protagonist by (*) Napoleon is addressed to his father. With the assistance of Faria, that protagonist escapes that Chateau d'If (DEEF) and gains a fortune. For 10 points, identify this novel about Edmond Dantes written by Alexandre Dumas (doo-MAH).

ANSWER: *The Count of Monte-Cristo* [or *Le Comte de Monte-Cristo*]

233-14-101-02101

BONUS: What Islamic caliphate dominated the Muslim world between the death of Ali and the ascent of the Abbasids?

ANSWER: Ummayad Caliphate [or Ummayads]

080-14-101-0210-11

2. In this organelle, plastoquinone acts as an electron acceptor for the cytochrome b6f complex. Proteins are transported across this organelle's membrane through the TIC and TOC complexes. This organelle is thought to have formed from endosymbiosis with (*) cyanobacteria, and grana in it are formed from stacks of thylakoids. The stroma of this organelle is the site of the Calvin cycle. For 10 points, identify this plant organelle that is the site of photosynthesis.

ANSWER: chloroplasts [prompt on plastids]

146-14-101-02102

BONUS: This is a 20-second calculation question. If I flip five fair coins at the same time, what is the probability that more land heads than tails?

ANSWER: 1/2 [or 0.5]

233-14-101-0210-11

3. This was the family of a preacher known as “The Most Famous Man in America” who was busted in an affair with Elizabeth Tilton. That man’s namesake “bibles” were rifles used in the fighting during Bleeding Kansas. It was the maiden name of the woman who married Calvin (*) Stowe and was called by President Lincoln the “little lady who caused such a big war.” For 10 points, name this family that included Harriet, the author of *Uncle Tom’s Cabin*.

ANSWER: Beecher [do not accept or prompt on "Stowe"]

052-14-101-02103

BONUS: What Bernini sculpture depicts the title Carmelite nun and an angel with a spear?

ANSWER: Ecstasy of St. Teresa [accept St. Teresa in Ecstasy, Transverberation of St. Teresa, or L'Estasi di Santa Teresa]

233-14-101-0210-11

4. The forty-five sites believed to house these objects include several in Latakia. The use of these items in the Ghouta area in August 2013 led to analysis of whether the (*) "red line" had been crossed. John Kerry alleged that these items killed 1400 people. For 10 points, identify these Geneva Convention-violating items which Bashar Assad agreed to remove from Syria after U.S. pressure.

ANSWER: Syrian chemical weapons

019-14-101-02104

BONUS: What Chinese author of *The Republic of Wine* and *Red Sorghum* won the 2012 Nobel Prize in Literature?

ANSWER: Mo Yan

233-14-101-0210-11

5. **A complex of exhibits is found on this city's Museum Island; the most famous of those museums houses a reconstruction of the Pergamum Altar. A television tower with a stainless steel dome, known as the Fernsehturm, stands near a public square in this city known as (*) Alexanderplatz.** The river Spree flows through this city, home to a quadriga chariot that sits atop a massive triumphal arch. For 10 points, name this European capital, home to the Brandenburg Gate.

ANSWER: Berlin

020-14-101-02105

BONUS: Albert Sidney Johnston died and Ulysses Grant's Army of the Tennessee won at what April 1862 battle, the bloodiest two-day battle of the Civil War?

ANSWER: Battle of Shiloh [or Battle of Pittsburg Landing]

052-14-101-0210-11

6. **This character is forced to produce vitamin-enriched malt syrup for pregnant women at a factory, and he marries Valencia Merble after completing optometry school. Eliot Rosewater recommends this character various novels by (*) Kilgore Trout, and at one point, this character is exhibited in a zoo at the planet Tralfamadore.** For 10 points, name this protagonist of Kurt Vonnegut's *Slaughterhouse-Five*.

ANSWER: Billy Pilgrim [or Billy Pilgrim]

227-14-101-02106

BONUS: The Kepler mission was designed to detect what type of bodies, which orbit stars other than our own?

ANSWER: exoplanets [or extrasolar planets; prompt on obvious equivalents, such as planets orbiting a star that is not the Sun]

233-14-101-0210-11

7. **In this film, a chorus girl jumps out of a cake to perform the song "Dream of You." The movie *The Dueling Cavalier* turns out to be a huge bomb for Monumental Pictures in this movie. In this film, silent film stars Don Lockwood and Lina Lamont become laughingstocks after the transition to (*) "talkies" reveals that Lina cannot sing; Don performs a famous song and dance routine while splashing through the water and twirling an umbrella.** For 10 points, name this musical comedy starring Gene Kelly.

ANSWER: *Singin' in the Rain*

080-14-101-02107

BONUS: In the Sermon on the Mount, Jesus claims that one cannot serve both God and what term for money or earthly goods?

ANSWER: Mammon

080-14-101-0210-11

8. **This was the goal of a group of protesters called the Silent Sentinels who labeled the President "Kaiser" when picketing the White House. That group angered Woodrow Wilson and was led by Alice Paul. This was the goal of the group NWSA, which was founded by Elizabeth Cady (*) Stanton and Susan B. Anthony.** For 10 points, name this action legalized throughout the United States by the 19th Amendment, which granted the right to vote for a certain class of citizens.

ANSWER: women's suffrage [or answers mentioning women being able to vote; accept 19th Amendment being passed until mentioned]

052-14-101-02108

BONUS: The Japanese poetic form of haiku consists of how many distinct *on*, which are like syllables?

ANSWER: **seventeen**

052-14-101-0210-11

**SET A:**

1. BONUS: Alf Landon was routed in what year's Presidential election, a landslide for Franklin Roosevelt in his first re-election campaign?

ANSWER: Election of **1936**

052-14-101-0210-12

2. BONUS: This is a 20-second calculation question. Express the cotangent of 30 degrees in simplest form.

ANSWER: the square **root** of **3** [or **radical 3**]

020-14-101-0210-12

3. BONUS: What psychologist demonstrated that people would deliver lethal electric shocks when told to do so by a researcher in his namesake "obedience to authority" experiment?

ANSWER: Stanley **Milgram**

123-14-101-0210-12

4. BONUS: What functional group consists of a hydrocarbon chain with at least one double bond between two carbons?

ANSWER: **alkenes** [do not accept "alkanes" or "alkynes"]

080-14-101-0210-12

SET B:

1. BONUS: What southern state's contested electoral votes were the difference in George W. Bush beating Al Gore in the 2000 election?

ANSWER: **Florida**

023-14-101-0210-12

2. BONUS: What playwright wrote about former baseball player Troy Maxson in his play *Fences*?

ANSWER: August **Wilson**

052-14-101-0210-12

3. BONUS: What play written by Edward Albee sees George and Martha treat Nick and Honey to bizarre games like "Humiliate the Host" and "Get the Guests"?

ANSWER: ***Who's Afraid of Virginia Woolf?***

227-14-101-0210-12

4. BONUS: This is a 30-second calculation question. In simplest form, what is the result of dividing the complex number " $-5 + 9i$ " by " $1 - i$ "?

ANSWER: **$-7 + 2i$**

232-14-101-0210-12



9. **Observations of the binary system SS 433 helped verify one form of this effect, which was also studied with a canal ray tube in the Ives-Stilwell Experiment. This effect is described by an equation involving the frequency, relative velocity, and wave velocity, and it causes (*) redshift and blueshift in distant stars. For 10 points, name this effect, in which a wave's frequency is changed when the source and observer are moving relative to each other.**

ANSWER: **Doppler** Effect [or Transverse **Doppler** Effect; or relativistic **Doppler** Effect; prompt on “**redshift**” or “**blueshift**” before mentioned]

187-14-101-02109

BONUS: Which artist included *Fight with Cudgels* and *Saturn Devouring His Son* in his *Black Paintings*?

ANSWER: Francisco Jose de **Goya** y Lucientes

186-14-101-0210-11

10. **After this event happened, Governor Thomas Hutchinson sent soldiers to Castle Island. A Paul Revere illustration shows it as a planned attack. This event killed the runaway slave Crispus Attucks and its perpetrators were defended by John Adams. Contrary to popular belief, many of the victims were armed and threw (*) snowballs at the perpetrators. For 10 points, name this March 5, 1770 incident in which British soldiers shot civilians in a New England city.**

ANSWER: **Boston Massacre** [or **Incident on King Street**]

052-14-101-02110

BONUS: Identify the African river that separates Brazzaville and Kinshasa, the capital cities of two countries that share this river's name.

ANSWER: **Congo** River

023-14-101-0210-11

11. **One line in this song states that the singers have got "that devilish flow, rock and roll, no halo." In the music video for this song, the two singers wake up from 28-day-long comas in a hospital. This song's chorus includes lines such as "everybody just have a (*) good time" and "we gon' make you lose your mind." Notable moments in this song include a pause before the line "everyday I'm shufflin." For 10 points, identify this song by the band that sang "Yes," LMFAO.**

ANSWER: "**Party Rock Anthem**"

126-14-101-02111

BONUS: What TV show aired its final episode in September 2013, in which Fry accidentally stopped time by breaking Professor Farnsworth's device?

ANSWER: **Futurama**

019-14-101-0210-11

12. **In the *Iliad*, this male god rescues Aeneas from Diomedes after Diomedes wounds Aphrodite. A statue of this god known as the "Belvedere" version may depict him just after slaying Python, who guarded the oracle at (*) Delphi, which this god then made his own. This god pursued a woman who turned into a laurel tree named Daphne. This god was the son of Zeus and Leto. For 10 points, name this Greek god of light and music, the twin brother of Artemis.**

ANSWER: **Apollo**

014-14-101-02112

BONUS: What Ayn Rand-inspired underwater city is inhabited by Big Daddies and serves as the setting of *Bioshock*?

ANSWER: Rapture

233-14-101-0210-11

13. **This practice was the subject of an “essay on comparative moral statistics” by Henry Morselli. The rates of it were determined to higher in times of peace than war and also higher among Protestants than Catholics. In a sociological text, this practice was distinguished as (*) egoistic, altruistic, anomic, or fatalistic. For 10 points, name this practice, the title of an 1897 Emile Durkheim study.**

ANSWER: suicide

052-14-101-02113

BONUS: What commander of the *Half Moon* and *Discovery* was abandoned on a raft after a 1611 mutiny?

ANSWER: Henry Hudson

019-14-101-0210-11

14. **Near the end of this play, one character attacks another with a paper knife after the latter’s rant about a “coward holding a baby-killer in his manly arms,” prompting a third character to note, “there’s no need for red-hot poker.” The protagonists of this play are army deserter Joseph (*) Garcin (gar-SAN), the lesbian Ines, and Estelle, who discovers that stabbing Ines has no effect. For 10 points, name this Jean-Paul Sartre (SAR-truh) play in which the characters realize they are dead and that “Hell is other people.”**

ANSWER: No Exit [or Huis Clos]

052-14-101-02114

BONUS: What gel-like substance surrounds the organelles of a cell?

ANSWER: cytoplasm [or cytosol]

020-14-101-0210-11

15. **An example of these types of books was written by Benvenuto Cellini and describes the conjuring of devils in the Coliseum. In an American of these books, the author urges “frugality” and “industry,” telling readers to “lose no time.” Famous examples include one written by Benjamin (*) Franklin, in which he describes his “thirteen virtues,” and a text called *Confessions* by St. Augustine. For 10 points, name this type of book in which a person writes about his or her own life.**

ANSWER: autobiography [prompt on biography]

052-14-101-02115

BONUS: What organelle contains A, P and E sites through which transfer RNAs are shuffled during translation, and is responsible for protein synthesis?

ANSWER: ribosome

048-14-101-0210-11

16. **The Venturi effect involves a reduction of this quantity in a fluid. Bernoulli’s principle states that if fluid speed increases either potential energy or this quantity must decrease. A change in this quantity is transmitted undiminished throughout a fluid by (*) Pascal’s principle. The ideal gas law sets the product of it and “V” equal to “n” “R” “T.” For 10 points, name this quantity that equals force per unit area and that can have units of pascals.**

ANSWER: fluid pressure [accept hydraulic head until Bernoulli’s principle; prompt on “P”]

185-14-101-02116

BONUS: What British author fought the Ottomans in World War I and wrote *Seven Pillars of Wisdom*?

ANSWER: Thomas Edward **Lawrence** [or **Lawrence** of Arabia]

052-14-101-0210-11



17. Indium gallium nitride is used to create LEDs of this color. An indicator named for bromothymol and this color turns this color at basic pHs. A "great" sinkhole located off the coast of Belize is named for this color. Rigel is a (*) supergiant of this color, which the hottest and most luminous stars have. Because methane dominates its atmosphere, Neptune appears this color from a distance. For 10 points, identify this color that names the whale that is the largest known animal.

ANSWER: blue

066-14-101-02117

BONUS: Which ferromagnetic, blue-gray metallic element is at the active center of vitamin B12?

ANSWER: cobalt [or Co]

190-14-101-0210-11