



1. This man set a single-season SEC record by throwing for his 2000th yard against Georgia. Before transferring to Blinn College, he was arrested for laptop theft while backing up Tim Tebow at Florida. He led his team to a 22-19 victory over Oregon in the BCS National Championship Game before being drafted by the Carolina Panthers in 2011. For 10 points, name this Heisman-winning Auburn quarterback who was at the center of an eligibility controversy in 2010.

ANSWER: Cam Newton

079-11-44-07101

2. Stone pillars found on this island were found at Kutai and bear Pallava Script. Hassanal Bolkiah rules a sultanate in the northeast of this island. The Kapuas river is the longest on this island, and the Sulu Sea lies to the north of this island. The Makassar Strait separates it from Sulawesi. It lies north of the Java Sea and includes the region of Sarawak. For 10 points, name this island shared by Brunei, Malaysia and Indonesia, the third largest in the world.

ANSWER: Borneo

141-11-44-07102

3. Governor Jack Walton was removed from office in this state after he suspended writ of habeas corpus to attack the Ku Klux Klan. In 1921, this state saw a race riot where the so-called "Negro Wall Street" was burned to the ground. One governor of this state, William Murray, drafted a Progressive constitution based on a proposed constitution for the state of "Sequoyah." This future state was where the Cherokees were relocated to in the Trail of Tears, and it also saw a namesake 1889 land run. For 10 points, name this "Sooner" state.

ANSWER: Oklahoma

052-11-44-07103

4. A decrease in income causes one character in this work to consider contracting the "Dillingham" in his name to a simple "D." The protagonist of this work seeks the services of Mademoiselle Sofronie after determining the inadequacy of her saved one dollar and eighty-seven cents. In this story, Della buys a platinum watch fob after selling her hair only to learn that her husband Jim sold his watch to buy her combs. For 10 points, name this Christmas story by O. Henry.

ANSWER: "The Gift of the Magi"

014-11-44-07104

5. In chapter five of the man's *Verbal Behavior*, he outlines the idea of "tact," where one makes contact with the world and can be reinforced. During World War II, this man came up with the idea of training pigeons to fly missiles into Japanese ships. He advocated the lifestyle proposed by Thoreau in his *Walden Two*. For 10 points, name this psychologist who created the operant conditioning chamber and a namesake "box," and was a leading disciple of John Watson in the behaviorist school.

ANSWER: Burrhus Frederic Skinner

135-11-44-07105

6. The protagonist of this work gives the name "Solitude" to a piece played by Mademoiselle Reisz, and she upsets her husband by going out on a Tuesday rather than receiving guests. The protagonist's sexual withdrawal causes her husband to consult Dr. Mandeleit, and she allows Alcee Arobin to begin a relationship with her. After being abandoned by Robert Lebrun, the protagonist commits suicide by swimming into the ocean. For 10 points, name this novel about Edna Pontellier by Kate Chopin.

ANSWER: *The Awakening*

014-11-44-07106

7. This phenomenon is exhibited by small areas in crystals subdivided by Bloch walls; those areas exhibiting this phenomenon are called Weiss domains. The noise generated by a material exhibiting this phenomenon when a certain applied force is changed is called the Barkhausen effect. Materials lose this property at temperatures above the Curie point. For 10 points, identify this type of magnetism exhibited by cobalt, nickel, and iron.

ANSWER: **ferromagnetism** [or word forms like "ferromagnetic"]

126-11-44-07107

8. Near the end of this work, the author criticizes those who refuse to look beyond the Bible and the Constitution for truth. This work states that "Under a government which imprisons anyone unjustly, the true place for a just man is also a prison." This essay begins by reciting the motto "That government is best which governs least." Its author refused to pay a poll tax on the grounds of his opposition to slavery and the Mexican-American War. For 10 points, name this essay by Henry David Thoreau.

ANSWER: "**Civil Disobedience**"

014-11-44-07108

9. This man survives an uprising by berating his malcontent comrades for tearing a page out of the Book of Revelation. This character's plots are overheard by a young boy hiding in a barrel of apples. This character owns a parrot who repeatedly cries "Pieces of eight!" Once the quartermaster for Captain Flint, this man signs onto Squire Trelawney's voyage as the ship's cook with the intention of leading a mutiny. For 10 points, name this "gentleman of fortune" who befriends Jim Hawkins in *Treasure Island*.

ANSWER: Long John **Silver** [or Long **John** Silver]

080-11-44-07109

10. The stage directions of this play refer to the female lead as a "Japanese Girl" when she comes out wearing a kimono. One character in this play tests his student's progress at a dinner with the Eynsford-Hill family. At the beginning of this play, a phonetician bets Colonel Pickering that he can give a cockney girl the speech and manners of a duchess. For 10 points, name this play about Professor Henry Higgins and Eliza Doolittle, written by George Bernard Shaw.

ANSWER: **Pygmalion**

080-11-44-07110

11. One room in this movie is broken into by characters trying to retrieve the Casket of Ancient Winters. The villain of this movie finds out he is the son of Laufey. This movie's title character is assisted by Volstagg, Fandral, Hogun, and Sif when he fights the Destroyer in New Mexico. The title character of this movie falls in love with Jane Foster after he is exiled from Asgard. For 10 points, name this 2011 movie about a Marvel Comics superhero who is stripped of his powers and for a time cannot wield Mjolnir (MYOLL-nir).

ANSWER: **Thor**

023-11-44-07111

12. One Supreme Court case named for this state dealt with the postmaster of New Echoda. This state's legislature fraudulently sold land in the Yazoo scandal, which led to the Supreme Court case *Fletcher v. Peck*. One destructive campaign in this state included a man making namesake "bowties" out of railroad lines. This state was the location of Sherman's March to the Sea, which captured the city of Savannah. For 10 points, name this state where Jimmy Carter was born.

ANSWER: **Georgia**

079-11-44-07112

13. In one play by this author, the title character proceeds with a bargain even after the words "Homo, fuge!" appear on his arm. He also wrote about a character who sends poisoned porridge to a convent in order to kill his daughter Abigail. That play ends when the title character, Barabas, dies in a boiling cauldron. In another work by this playwright, the title character sells his soul in exchange for twenty-four years of service from Mephistophilis. For 10 points, name this Elizabethan playwright of *The Jew of Malta* and *Doctor Faustus*.

ANSWER: Christopher **Marlowe**

080-11-44-07113

14. The protagonist of this work receives a deer, a boar, and a fox in succession in exchange for one, two, and three kisses. At the end of this poem, Bertilak de Hautdesert reveals that he acted on the wishes of Morgan le Fay. Earlier, Bertilak shows up at King Arthur's Court to challenge a knight to behead him, but receive a similar blow a year later. For 10 points, name this anonymously written chivalric romance about a member of the Round Table and an oddly-colored warrior.

ANSWER: **Sir Gawain and the Green Knight**

080-11-44-07114

15. This politician was the target of the popular chant "how many kids did you kill today?" The controversial "Daisy ad" was pulled by this politician's campaign, although it still influenced his landslide victory over Barry Goldwater. This President shocked the public by announcing he would not run for a second term. For 10 points, identify this president during the Vietnam War and creator of the Great Society programs and the War on Poverty.

ANSWER: Lyndon Baines **Johnson** [or **LBJ**]

126-11-44-07115



1A. This is a 10-second computation question. What is $a^2 + ab + b^2$ if a equals 5 and b equals -2?

ANSWER: **19**

1B. This is a 10-second computation question. Find the probability of rolling a 4 on a throw of two fair 20-sided dice. Express your answer as a fraction in lowest terms.

ANSWER: **3/400**

2A. In physics this term refers to a system where the net force and torque is zero. Name this term that in chemistry refers to the state when concentrations of reactants and products have no net change.

ANSWER: **Equilibrium**

2B. What term did Aristotle use in his *Poetics* to describe the emotional cleansing that members of an audience were intended to feel while watching certain plays?

ANSWER: **catharsis**

3A. What Israeli soldier was released in exchange for 1027 prisoners in October 2011 after having been held captive by Hamas for more than five years?

ANSWER: Gilad **Shalit**

3B. Which state is the setting of Tracy Letts's play *August: Osage County* and is the starting point for the Joad family's migration to California in John Steinbeck's *The Grapes of Wrath*?

ANSWER: **Oklahoma**

4A. This is a 20-second computation question. Find the vertex of the parabola: $y = x^2 + 6x - 2$.

ANSWER: **(-3,-11)**

4B. This is a 20-second computation question. A data set with 9 values has a mean of 25 and a variance of 36. What is the standard error of the mean?

ANSWER: **2**

5A. Name the American pop artist whose canvas *Eight Elvises* sold for over \$100 million in 2009, a man also famous for depictions of Marilyn Monroe and Campbell's soup cans.

ANSWER: Andy **Warhol** [or Andrew **Warhola**, Jr.]

5B. A region called Xanadu can be found on which moon, the second-largest in the Solar System and the largest moon of Saturn?

ANSWER: **Titan**

6A. Which Baroque composer, also a virtuoso organist, composed *The Well-Tempered Clavier* and *The Art of the Fugue*?

ANSWER: Johann Sebastian **Bach**

6B. Which mathematical operator from calculus can be used to find the area under a curve and is calculated by taking an antiderivative?

ANSWER: **integral**

7A. This is a 30-second computation question. A kite has two side lengths of 13 centimeters and two side lengths of 20 centimeters. What is the area of the kite, in square centimeters?

ANSWER: **504** square centimeters

7B. This is a 30-second computation question. A coin is weighted to come up heads 60% of the time. Compute the expected number of heads in 3 tosses of the coin. Express your answer as either a decimal to the nearest tenth or an improper fraction in lowest terms.

ANSWER: **1.8** [or **9/5**]

8A. What philosopher described the thesis, antithesis and synthesis in his dialectic and wrote *Phenomenology of Spirit*?

ANSWER: Georg Wilhelm Friedrich **Hegel**

8B. Sects of which religion include one which venerates the Amitabha aspect of their chief figure, the Pure Land sect, as well as the traditionally split Mahayana and Theravada sects?

ANSWER: **Buddhism**

9A. What Australian-started activity gained publicity in 2011 and involves lying down on the ground in a public place?

ANSWER: **planking**

9B. Xerxes's (ZERK-zeez-ez) bridge of boats, the "Straits Question" of nineteenth-century diplomacy, and the attack on Gallipoli all concerned what strategic waterway, which connects the Aegean Sea to the Sea of Marmara and cuts through what is now Turkey?

ANSWER: the **Dardanelles** [or the **Hellespont**; or **Canakkale Bogazi**]

10A. Devanagari (DEH-von-uh-GAR-ee) characters are used to write what language of ancient India, whose writers included Kalidasa (KAH-kee-DAH-suh) and Panini?

ANSWER: **Sanskrit**

10B. What Russian novelist of *The Idiot* described the murder of Fyodor Pavlovich by the bastard Smerdyakov in *The Brothers Karamazov*?

ANSWER: Fyodor Mikhailovich **Dostoevsky**



1. The Thomas correction allows for this behavior to be applied in non-inertial reference frames. The torque-free variety of this phenomenon occurs because of a lack of symmetry, while the torque-induced variety can be followed by nutation. Because of this phenomenon, Polaris will one day cease to be the North Star. This motion can be observed in both the earth and a smoothly spinning top. For 10 points, name this movement of a body's axis of rotation.

ANSWER: **precession**

105-11-44-07117

2. This artist painted himself as a boy holding hands with a skeleton dressed as an upper-class woman in a painting that included the slogan "God Does Not Exist." This artist of *Dream of a Sunday Afternoon* and the *Detroit Industry* series controversially depicted Lenin leading a demonstration of workers in another work. For 10 points, name this artist of *Man at the Crossroads*, a Mexican muralist who was married to Frida Kahlo.

ANSWER: Diego **Rivera** [or Diego María de la Concepción Juan Nepomuceno Estanislao de la **Rivera** y Barrientos Acosta y Rodríguez]

080-11-44-07118

3. This former private secretary to Jefferson was killed in a tavern on his way to Washington, D.C., for a meeting about how poorly he was doing at being the governor of the Louisiana Territory. This man's interpreter was Touissant Charbonneau and his companion's slave was York. After living in a Mandan village, this man crossed the Bitterroots with the help of horses given to him by the brother of Sacagawea. For 10 points, name this explorer who reached the Pacific Coast with William Clark.

ANSWER: Meriwether **Lewis**

124-11-44-07119

4. Liquefaction can cause damage during these events which are theorized to be caused by elastic rebound. The shadow zone is a result of P waves generated by this phenomenon refracting in the D-double prime layer. The focal depth measures the distance between the surface and the epicenter of these events. The intensity of this phenomenon is measured by the Mercalli and Richter scales. Aftershocks follow the mainshock of these events. For 10 points, name this violent shaking of the ground that occurs near faults.

ANSWER: **earthquake**

124-11-44-07120

5. After his cousin berated him one hundred and one times, this figure killed her with his chakra. This figure married the sixteen thousand women imprisoned by the demon Narakasura. He was raised by Yasoda and Nanda alongside his brother Balarama, and his consort was a Gopi, or milkmaid, named Radha. This figure's conversation with Arjuna before a climactic battle comprises the Bagavad Gita. For 10 points, name this eighth avatar of Vishnu, a blue-skinned Hindu god.

ANSWER: **Krishna**

048-11-44-07121

6. In Maryland, Patrick McDonough led a campaign to put a referendum to overturn this state law on the November 2012 ballot. Pat Quinn personally pledged one thousand dollars toward a fund created by the Illinois version. In 2010 a national version of this bill was included along with a "Don't Ask, Don't Tell" repeal in a National Defense Authorization Act. For 10 points, name this kind of bill that provides higher education scholarships or tuition deductions for qualifying illegal immigrants.

ANSWER: **DREAM** Act [or **Development, Relief, and Education for Alien Minors** Act]

003-11-44-07122

7. Two hallmark symptoms of type I diabetes are hyperglycemia, high ketone levels, and a low value for this variable. The central chemoreceptors in the medulla oblongata activate in response to changes in this variable. This variable is lowered when the arterial PCO₂ is higher, since carbonic anhydrase converts CO₂ and H₂O to H₂CO₃, which becomes HCO₃⁻ and H⁺. For 10 points, name this variable that is 7.35 to 7.45 in the blood, a measure of alkalinity or acidity.

ANSWER: **pH**

020-11-44-07123

8. This state is the location of the five mile wide Wetumpka Impact Crater. The capital of this state is located at the confluence of the Coosa and Tallapoosa rivers. Its town of Muscle Shoals has been a music recording center. A giant statue of Vulcan overlooks this state's largest city, which is nicknamed the "Magic City." For 10 points, name state, the home of Mobile and Birmingham.

ANSWER: **Alabama**

030-11-44-07124

9. This substance is produced by and targets the same organism in cleistogamy. Different traits that encourage different ways of transferring this substance are known as "syndromes". The organism that produces this substance is classified as either insect-loving or wind-loving, depending on its method of transmission. It makes its way from the stigma and style to the ovary of a female. For 10 points, name this substance which people are allergic to in hay fever.

ANSWER: **pollen**

020-11-44-07125

10. This leader appointed Alex Boraine as the deputy chair of the victim-focused Truth and Reconciliation Commission. Due to involvement with the Umkhonto we Sizwe, this leader was charged for treason in the Rivonia Trial. With F. W. de Klerk, he helped end his country's system of racial segregation called apartheid. For 10 points, name this first black president of South Africa.

ANSWER: Nelson Rolihlahla **Mandela**

130-11-44-07126

11. This kingdom includes the organism that Beadle and Tatum used to prove the one gene-one enzyme hypothesis. Coenocytic ones do not have cells separated by septa. Ascomyceta and Basidiomyceta are two phyla that belong to this kingdom. They can exist in a symbiotic relationship with plants in mycorrhizae, and structures that are found on them include hyphae. For 10 points, name this kingdom, which includes molds, yeast, and mushrooms.

ANSWER: **fungi**

140-11-44-07127

12. One battle in this war occurred at Malplaquet. The victors of that battle, Eugene of Savoy and the Duke of Marlborough, had earlier won a more decisive victory in this conflict when they beat the forces of the Duc de Tallard at Blenheim. Called Queen Anne's War in North America, this conflict began following the death of Charles II. For 10 points, name this war ended by the Treaty of Utrecht that was started in order to prevent the Bourbons from receiving an Iberian country's throne.

ANSWER: War of **Spanish Succession**

141-11-44-07128

13. The spins of these objects induce magnetic dipoles that increase shielding in NMR. Atomic orbitals are usually visualized as regions within which there is a 90% probability of finding one of them. No two of them can have the same quantum numbers by the Pauli Exclusion Principle. These particles are unpaired in single oxygen atoms and other free radicals. Covalent bonds are formed when they are shared between atoms. For 10 points, name these small, negatively charged components of atoms.

ANSWER: **electrons**

132-11-44-07129

14. This instrument asks the title *Unanswered Question* in an Ives work, while Jeremiah Clarke's "Prince of Denmark's March" is also known as its "Voluntary". One player of this instrument won a Pulitzer for *Blood on the Fields* and is Lincoln Center's Director of Jazz. Another player of this instrument wrote the song "A Night in Tunisia", while a third player recorded the album *Kind of Blue*. For 10 points, Wynton Marsalis, Dizzy Gillespie, and Miles Davis all played what brass instrument?

ANSWER: **trumpets**

079-11-44-07130

15. An algorithm for this process that depends on the difficulty of prime factorization is known as the RSA algorithm. In that algorithm, a user publishes a piece of information called a public key. Algorithms for it are often explained in terms of communication between Alice and Bob. Protocols for implementing it on the internet include TLS and SSL, and are used on websites with "HTTPS" in their URL. For 10 points, name this process of making information unreadable to someone who cannot decode it.

ANSWER: **encryption** [prompt on **cryptology**]

132-11-44-07131



1. This inventor of the fictitious Doctors' Plot oversaw a massive famine called the Holodomor. One policy enacted by this man was aimed at landowners called kulaks, who were ordered shot and their families arrested. This man was denounced in Khrushchev's "Secret Speech." This leader's Great Purges greatly expanded the Gulag system. This man ordered the murder of Leon Trotsky in Mexico City. For 10 points, name this General Secretary of the Communist Party of the Soviet Union following the death of Lenin until his death in 1953.

ANSWER: Joseph Vissarionovich **Stalin** [or Ioseb **Dzugashvili**]

141-11-44-07132

2. In coordination chemistry, these compounds have *mer* and *fac* types. The optical types rotate plane-polarized light in opposite directions and are denoted *R* or *S*. The geometric type of these compounds often differ in their structure around a double bond, in which case they are named *cis* or *trans*, or *E* or *Z*. Dimethyl ether and ethanol are two of these compounds with the formula C₂H₅O (C-two-H-five-O). For 10 points, give this term for compounds that contain the same atoms arranged differently.

ANSWER: **isomers**

132-11-44-07133

3. This emperor ousted his former ally Macro from office. After being told he had no more chance of becoming emperor than crossing the Bay of Baiae, he built a pontoon bridge across the bay. This man, who deified his sister Drusilla, was succeeded by Claudius after being assassinated by the Praetorian Guard in 41 CE. His nickname means "little boots." For 10 points, name this Roman emperor who allegedly named his horse Incitatus a consul.

ANSWER: **Caligula** [or **Gaius** Caesar Germanicus]

079-11-44-07134

4. This man investigated pebrine, a silkworm disease, which he found to be caused by a protozoan (proh-toh-ZOH-ahn). He also determined the cause of poor-tasting wine and beer to acid-producing bacteria. This man developed attenuation through inoculating cows from anthrax. This man disproved the theory of spontaneous generation through an experiment that used boiled broth and a swan-necked bottle. For 10 points, name this scientist, who lends his name to a process involving the heating of food to prevent disease.

ANSWER: Louis **Pasteur**

140-11-44-07135

5. One play by this author ends with a snowstorm burying Irene von Satow and the sculptor Arnold Rubek. This author of *When We Dead Awaken* also wrote a play in which the discovery of contamination in the town baths leads to the ostracism of Thomas Stockmann. This playwright also depicted Torvald being abandoned by his wife Nora Helmer. For 10 points, name this Norwegian playwright who wrote *An Enemy of the People* and *A Doll House*.

ANSWER: Henrik **Ibsen**

088-11-44-07136