

1. Interdisciplinary

(Note to moderator: Bubalus bubalis is pronounced BYOO-bal-uhs BYOO-bal-is.) This substance is mentioned in the title of James McBride's autobiography, and it is the first word in the common name for the animal with scientific name Bubalus bubalis. In *The Rime of the Ancient Mariner*, this word is repeated before the word Everywhere. Religions related to Catholicism bless it and store it in a font, and it appears in the title of a composition by Handel first performed on the Thames. Identify this substance which could be called dihydrogen monoxide.

ANSWER: Water (do not accept Ice or other variations)

2. Pyramidal Math (30 Seconds)

This is the only binomial factor of $x^3 - 6x^2 + 12x - 8$, and it is equal to the quantity $x^2 - 7x + 10$ divided by the quantity $x - 5$. It also is one of the factors of $x^3 - 8$. Find this binomial which has the same formula as the linear function that goes through the points (1,-1) and (5,3).

ANSWER: $(y=)x-2$ (accept $x + -2$ or $-2+x$)

3. World Literature

This author wrote a few plays, including adaptations of works by Faulkner and Dostoyevsky as well as a work about Caligula. In 1957, six of his short stories were published under the title *Exile and the Kingdom*. The last three novels of his that were published are *A Happy Death*, *The First Man*, and *The Fall*. However, he is better known for his first two novels, one of which has a main character who repeatedly shoots his friend's girlfriend's brother, another of which begins with thousands of rats dying, and both of which are set in his native Algeria. Name this author of *The Stranger* and *The Plague*.

ANSWER: (Albert) Camus

4. Current Events

This is the maiden name of Gordon Smith's mother; Smith just lost his Senate seat to Jeff Merkley. It is also the last name of a man who served as the Chief Justice of the Arizona Supreme Court in the 1950s. That man had six children, two of whom represented Arizona in the US House of Representatives. One of those two also served as Secretary of the Interior under Kennedy and Johnson. Those two Congressmen each had sons who were elected to Congress in 1999, one from New Mexico and the other from Colorado. Name this family that, thanks to the 2008 Elections, has two people about to become Senators.

ANSWER: Udall(s)

5. Biology

This term is used to describe two of the phases during meiosis, the first of which involves the crossing over process. It also is used to describe the phase during mitosis in which the nucleolus usually disappears and the centrosomes move away from each other. It is characterized by chromatin condensing into chromosomes. Name this mitosis stage that takes place before metaphase, generally considered the first step in cell division.

ANSWER: Prophase

6. Music

(Note to moderator: Poppea is pronounced Poh-PAY-a.) Most of his early works were motets and madrigals, and he spent the last thirty years of his life in Venice. Near the end of his life, he wrote the operas *The Return of Ulysses* and *The Coronation of Poppea*. His most famous opera contains the aria Tu Se Morta and begins with a character called La Musica explaining the power of the protagonist. Name this 16th and 17th Century composer who wrote an opera about Orpheus.

ANSWER: (Claudio) Monteverdi

7. United States History

His troops sometimes arrived late during the Seven Days Battles, and he underestimated enemy strength at the Battle of Kernstown. In between those blunders, however, he had great success in the Valley Campaign. He helped win a major victory at the Battle of Chancellorsville, but he was mistakenly shot at night by his own troops. Name this Confederate General who acquired his famous nickname at the First Battle of Bull Run.

ANSWER: (Thomas “Stonewall”) Jackson

8. Physics (10 Seconds)

(Note to moderator: Hydrocyanic is pronounced HIGH-drogh-sigh-an-ik.) It is in a steel chamber with a device described as follows: a Geiger counter contains a tiny bit of substance that has a fifty percent chance of decaying over the course of an hour, and if that substance decays a flask of hydrocyanic acid is shattered. Quantum mechanics must describe the state of the substance using superposition, but it does not make sense to describe the state of this animal the same way. Identify this animal in a thought experiment that belonged to the Austrian physicist who imagined it.

ANSWER: Schrodinger('s) Cat (prompt Cat)

9. Vocabulary

In finance, this term is related to liquidity and refers to an amount of capital held back from investment in order to meet probable or possible demands. Similarly, this term can refer to military forces not committed to battle or to athletes available on the bench. It also describes land set aside for hunting. Give this term that, as a verb, means to save for future use.

ANSWER: Reserve(s)

10. Religion/Mythology

He was born holding his brother's heel. Many years later, fearing his brother's anger, he moved to Haran and worked for Laban. He worked for Laban in order to marry his daughter, but he was tricked into marrying the wrong one. Eventually, he was able to marry both women and produced sons through both them and their servants. One of his wives, Rachel, died giving birth to his twelfth and final son, Benjamin. Name this son of Isaac and Rebecca and brother of Esau.

ANSWER: Jacob (or Israel)

11. Pop Culture

(Note to moderator: No singing or laughing, please.) According to a song in a very famous movie, what is the one answer to the following questions: What makes the sphinx the seventh wonder? What makes the Hottentot so hot? What puts the ape in apricot? What makes the muskrat guard his musk? What makes the elephant charge his tusk, in the misty mist or the dusky dusk? What have they got that I ain't got? The song is sung by actor Bert Lahr in the Emerald City in 1939's *The Wizard of Oz*.

ANSWER: Courage (Wizard of Oz)

12. Geometry/Trigonometry (30 Seconds)

Ignore units. Find the area of the largest circle that can be inscribed inside a rectangle that is six by ten.

ANSWER: Nine Pi (do not accept Nine)

13. Nonfiction

Some of the books she wrote include *The Fountain of Age*, *Beyond Gender*, and *Life So Far*. She had enough schooling to be a psychologist, but she never became one. The mother of three children, she wrote a famous book in 1963 that was personal and political, criticizing society for encouraging women to live through their family members. Name this co-founder of the National Organization for Women who wrote *The Feminine Mystique*.

ANSWER: (Betty) Friedan (accept Goldstein)

14. British Literature

He wrote a few stories for children, including *The Happy Prince*. He wrote several plays, including one which involves a fraudulent scheme to build a canal in Argentina. Another play involves several rumored affairs, including one involving Lord Darlington. His most famous play begins in Algernon Moncrief's apartment. These three plays are *An Ideal Husband*, *Lady Windermere's Fan*, and *The Importance of Being Earnest*. Name this man whose only novel was *The Picture of Dorian Gray*.

ANSWER: (Oscar) Wilde

15. Geography/Earth Science/Astronomy

High tides from this bay killed hundreds of thousands of people in 1970. It is fed by the Palar, Godavari, and Irrawaddy Rivers. To its East is Andaman Sea, and its southern corners are by Sumatra and Sri Lanka. Though the Hudson Bay has a longer shoreline, this is the largest bay in the world by surface area. Name this body of water on the coast of Myanmar, Bangladesh, and India.

ANSWER: (Bay of) Bengal

16. Algebra (30 Seconds)

Find x if Susie and Janie have the same amount of money. Susie has x dimes and twenty nickels. Janie has x quarters and two nickels.

ANSWER: 6

17. Art/Architecture

(Note to moderator: Triptych is pronounced TRIP-tick.) The middle of this work has several ponds, including a small circular one that has many people riding animals around it. Its left side shows a wide variety of animals and God presenting Eve to Adam. The right side is much darker and depicts Hell. Name this triptych completed in the early 16th Century by Hieronymus Bosch.

ANSWER: (The) Garden of Earthly Delights

18. Chemistry

This compound is made in laboratories by exposing formic acid to hot, concentrated sulfuric acid. It can also be produced when common compounds come into contact with coke. It is used to synthesize methanol and as a reducing agent. Unfortunately, this colorless, odorless, and tasteless gas binds with hemoglobin molecules much more easily than oxygen, so people exposed to heavy concentrations of it experience drowsiness, headaches, and eventually death. Name this common diatomic molecule.

ANSWER: Carbon Monoxide (prompt Carbon Oxide)

19. United States Literature

When the narrator of this novel arranges a meeting for the title character, the title character offers to have the narrator's lawn mowed and find him some better work. Despite some rain, the meeting goes well and involves some piano playing by Klipspringer. The narrator is originally from Minnesota and tries to sell bonds for a living in New York City. The title character is very wealthy and likes to throw big parties at his mansion in West Egg. Name this novel by F. Scott Fitzgerald.

ANSWER: (The) Great Gatsby (do not accept Gatsby)

20. World History

While he was King, the terms Whig and Tory began being used for political sides during the Exclusion Crisis. The terms of his reign were worked out by the Declaration of Breda, Militia Act, and Act of Indemnity and Oblivion. A lot of misfortunes happened during his rule, including the second Dutch War, the Great Plague, and the Great Fire. Name this Stuart King from 1660 to 1685 who ruled after Richard Cromwell was removed from power.

ANSWER: (King) Charles II (Stuart) (of England) (prompt Charles or Charles Stuart)

Tiebreakers:

If you need to replace a question, take the corresponding question from the Replacement Packet rather than one of these questions. In case of a tie, use these questions in order until one is answered correctly.

This law is named after a nineteenth century Frenchman, and deviations from it are sometimes corrected by adjusting for the difference between pressure and fugacity. Relating vapor pressures to mole fractions within a solution, it can be cited in an explanation of how antifreeze works. Name this law which quantifies how the addition of a solute to a liquid lessens the tendency of the liquid to change phases.

ANSWER: Raoult('s Law)

(Note to moderator: Amiens is pronounced AHM-ee-enz, and Giusti is pronounced like JUICE Tea.) This war included the Battles of Loos, Ginchy, and Amiens. Truces that started bringing about its end were signed at Saloniki, Mudros, and Villa Giusti. It also included the Caucasus, Serbian, and Dardanelles Campaigns. Its beginning is sometimes known as the July Crisis, and an early failed military strategy was known as the Schlieffen Plan. Name this war precipitated by the assassination of Archduke Franz Ferdinand that lasted from 1914 to 1918.

ANSWER: World War I (or The Great War)

This country borders Israel, Libya, and Sudan. Name this country whose capital is Cairo.

ANSWER: Egypt