

1. US Literature

In this story, a prefect known as Monsieur G often calls things odd. He suspects Minister D of taking something from the royal apartments and holding on to it. This problem is dealt with by Auguste Dupin. Name this short story by Edgar Allan Poe.

ANSWER: (The) Purloined Letter

2. Calculus/Combinatorics (30 Seconds)

Express your answer as a fraction in lowest terms. If you toss a coin five times, what is the probability that you will get at most four heads?

ANSWER: $31/32$

3. Music

At the time of his death, he was trying to get the only opera he wrote performed. It was performed for the first time fifty-three years later, in 1970. His music regained its popularity during the 1970s thanks to the movie *The Sting*. Before recorded music became popular, he became the first composer to write a song that sold one million copies of sheet music. Name this composer of *Something Doing*, *The Entertainer*, and *Maple Leaf Rag*.

ANSWER: (Scott) Joplin

4. Chemistry (10 Seconds)

It has a half-life of twelve years, and it usually is created by bombardment of lithium or nitrogen by neutrons. When it decays, it leads to the second most common form of helium, an electron, and an electron antineutrino. It can be used to date wine and in nuclear weapons. Name this isotope that contains one proton and two neutrons.

ANSWER: Tritium (prompt Hydrogen-3)

5. Religion/Mythology

It was a pet of the King of Caria until it escaped to the Kingdom of Lycia, was the offspring of Typhon and Echidna, and was usually depicted as the combination of a goat, a snake, and a lion. Name this creature that was killed by Bellerophon on his Pegasus.

ANSWER: Chimera

6. Algebra (30 Seconds)

If the log base b of x equals five [note to moderator: $\log_b x = 5$], then what is the value of the log base b of the quantity b times x [note to moderator: $\log_b(bx)$]?

ANSWER: 6

7. World History

He ruled from the time his nation was founded until his death in 1964. A leader of the Congress Party, he believed his country should be democratic, socialist, and secular. He was a widower, and his daughter, who was treated like a first lady during his lifetime, later served as Prime Minister herself. Though he fought hard for independence, he decided to keep his nation in the British Commonwealth. Name this ally of Mohandas Gandhi.

ANSWER: (Jawaharlal or Pandit) Nehru

8. Technology

The first one was created by Gary Starkweather of Xerox around 1970, and the first commercial ones were produced by IBM and then Xerox in the late 1970s. They work via a six-step process: charging, writing, developing, transferring, fusing, and cleaning. Name this computer accessory that made dot matrix and daisy wheel printers obsolete.

ANSWER: Laser Printer(s) (do not accept Printer)

9. Pop Culture

She played Isabella Branya Williams from 2001 to 2003 on *The Young and the Restless*. She used to be married to another soap opera star, but she is now divorced and was recently dating a professional athlete. In 2004, she starred in the minor movie *Carlita's Secret*, and this year she starred in *The Sentinel*. Name this actress who portrays Gabrielle Solis on *Desperate Housewives*.

ANSWER: (Eva) Longoria

10. World Literature

The main character of this novel is accused of treason by Caderousse, Fernand Mondego, and Danglars. His name is Edmond Dantes, and he eventually assumes the title used as the name of the book. Name this 1844 work by Alexandre Dumas.

ANSWER: (The) Count of Monte Cristo (or (Le) comte de Monte Cristo)

11. Biology

This term is usually associated with animals and protists; an alternative term is often used with plants and fungi. Animal examples include Placozoa, Cycliophora, and Rhombozoa, while protist examples include Chromista, Rhizaria, and Rhodophyta. More common animal examples include Porifera, Annelida, and Chordata. Name this level of taxonomical classification more general than Class and more specific than Kingdom.

ANSWER: Phylum(s) (or Phyla)

12. Language Arts

In botany, this term describes plants that store water in fleshy stems or leaves. According to a dictionary, this nine-letter adjective means full of vitality, freshness, or richness. Give this synonym of juicy beginning with the letter S.

ANSWER: Succulent

13. Geography/Astronomy/Earth Science

This city is overlooked by Table Mountain and contains Two Oceans Aquarium. It is not far from Robben Island, which used to hold some famous political prisoners. Name this city with a population of about three million people that serves as the legislative capital of South Africa.

ANSWER: Cape Town (or Kaapstad)

14. Current Events

You can answer with the abbreviation or the full name. This agency's current acting commissioner is Andrew von Eschenbach, but his nomination is being held up by critics on the Far Left and Far Right. The last leader, Lester Crawford, recently pleaded guilty to incomplete financial disclosures. Name this agency recently involved in controversies concerning a human genome lupus program, designer contact lenses, Plan B medication, and spinach.

ANSWER: FDA (or Food and Drug Administration)

15. Geometry/Trigonometry (30 Seconds)

Angle B is an obtuse angle in parallelogram ABCD. What is the value of 'cosine A' divided by 'cosine B'?

ANSWER: -1 (do not accept 1)

16. British Literature

His Marguerite poems are about a romance in Switzerland, he praised his father in "Rugby Chapel", and he honored a poet he knew in "Thyrsis". This nineteenth century poet did not want his name attached to his earliest works, including "The Forsaken Merman", so they were published with the poet's name given as A. Name this poet of "Dover Beach".

ANSWER: (Matthew) Arnold

17. Nonfiction

These were opposed by Morton Borden and Herbert Storing. Each one was addressed to the People of the State of New York and signed using the pen name Publius. They argued for a Republican form of government and described the roles of the different branches. Name this collection of eighty-five letters written by John Jay, James Madison, and Alexander Hamilton arguing for ratification of the Constitution.

ANSWER: (The) Federalist (Papers)

18. Physics (10 Seconds)

Pressure plus one-half density times velocity squared plus density times gravitational field strength times height is the same everywhere. This can be written as an equation, and that equation is named after an eighteenth century scientist. The general principle is that velocity is high when pressure is low and vice versa. Name this equation used to explain liquid and air flow.

ANSWER: Bernoulli('s Equation or Principle)

19. Art/Architecture

The pieces that go into making it are called voussoirs. These structures can take on several shapes, such as depressed, ogee, and horseshoe. Designed to change tensile stresses into compressive stresses, they require a keystone in the center. Name these architectural curves that span openings.

ANSWER: Arch(es)

20. US History

He was appointed by Ulysses Grant as Customs Collector for the Port of New York but fired by Rutherford Hayes under suspicion of bribery. However, he would later be called The Father of Civil Service. He started as a protégé of Roscoe Conkling but eventually split from him as President. Name this Vermont native who was never nominated for President but served after the assassination of Garfield.

ANSWER: (Chester) Arthur

Tiebreakers: (If you need to replace a question, take one from the Replacement Packet.) Use these questions in the order given if you need to break a tie. The first correct answer wins the match.

Closely related to Plan Nine, it has been developed by Vita Nuova. It includes a web browser called Charon, a virtual machine called Dis, the programming language Limbo, and the communications protocol Styx. Name this operating system whose creators seem to be fascinated by Dante.

ANSWER: Inferno

The primary architects were Andre Le Notre, Louis Le Vau, and Jules Hardouin-Mansart. They changed it from a small hunting lodge into something bigger during the late seventeenth century. Now containing a Hercules Room, Venus Room, and plenty of other rooms, it served as the seat of government from 1682 until 1789. It is also where the German Empire was proclaimed and where the peace ending World War One was signed. Name this huge palace near Paris.

ANSWER: (Chateau de or Palace of) Versailles

Which state contains the towns of Bellingham, Federal Way, Yakima, Tacoma, and Seattle?

ANSWER: Washington