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1. Although it has existed in theory since 1925, it was first created only last year, when researchers in Colorado used a laser trap to cool rubidium gas to ten nanokelvins, forming a particle that behaves according to quantum laws even though it is hundreds of microns across. FTP, name this fifth state of matter, which is named after the two scientists who first proposed its existence.

Ans: BOSE-EINSTEIN CONDENSATE

2. It was built in six years, devised by a mathematician and a physicist, and was originally covered with gold and white marble. Built to resemble Rome's Pantheon, it was centrally planned around a dome and was originally lavished with gold mosaic, until the Moslems whitewashed the walls and added the four minarets that are seen there today. For ten points, name this great building, royal chapel of Justinian in Constantinople whose name means "holy wisdom"

Ans: HAGIA SOPHIA

3. It is present in the immune, circulatory, and nervous systems and has wide-ranging effects from dilating blood vessels to sending messages between neuronal cells. Indeed, it is this last function which has recently linked aggressive behavior in mice to a lack of this chemical. FTP name this chemical often confused with laughing gas.

Ans: NITRIC OXIDE

4. He is said to have invented the phrase "Golden Gate" on one of his explorations of California, where he would stay to support the Bear Flag Republic during the Mexican War, gain a fortune in the gold rush, and eventually become one of the new state's first two senators, becoming nationally known for his abolitionist views. FTP, name this explorer and politician who became the Republican Party's first presidential candidate.

Ans: John Charles FREMONT

5. Scholars place his life in the second half of the sixth century A.D., and his output consists of religious lyrics, ballads praising the royal lines of Powys and Rheged, and obscure prophecies based on Celtic mythology. FTP name this Welsh poet, who in this century gave his name to the two architectural schools of Frank Lloyd Wright.

Ans: TALIESIN

6. By day he was a chemist at the Medico-Surgical Academy in St. Petersburg, where he did some groundbreaking work on aldehydes and championed the establishment of medical courses for women. But most of us know him better for his spare-time work, which includes three symphonies, the tone poem "On the Steppes of Central Asia," and the opera "Prince Igor." FTP, name this member of the Russian Five.

Ans: Aleksandr BORODIN

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7. FAQTP, name the second woman ever to serve as a cabinet official, serving from 1953-5 as Secretary of Health, Education, and Welfare under Eisenhower.

Ans: Oveta Culp HOBBY

8. The Treaty of Washington, signed 125 years ago, was the result of an arbitration panel meeting in Geneva, who voted that the US be paid \$15.5 million dollars in reparations from Great Britain, resulting from damage to U.S. property by FTP, which Confederate ship, constructed in a British port?

Ans: the ALABAMA

9. He graduated from the US Naval Academy in 1923 and fought in WW II. He participated in the Korean War armistice talks and became the Chief of Naval Operations in 1955. After having a class of guided missile destroyers named for him, he died at the beginning of this year. FTP name him.

Ans: ARLEIGH BURKE

10. He got his 15 minutes of fame when he drove over a snow-covered land mine. FTP can you name the first US soldier wounded in Bosnia?

Ans: Martin BEGOSH

11. The infamous Supreme Court case Roe vs. Wade challenged a Texas law that forbid all abortions except those that would save the life of an expectant mother. In this case, the plaintiff was known as Jane Roe to avoid personal stigma. FTP give her name name.

Ans: Norma MCCORVEY

12. Found in Rome and located on the spot which once marked the end of the Aqua Vergine, this famous Italian landmark contains a statue of the god Oceanus riding a gigantic shell drawn by seahorses. FTP name this fountain which is commonly believed to ensure a speedy return to Rome for any traveler who throws a coin into its waters.

Ans: TREVI fountain

13. Brazilian currency is not known for its stability and is often responsible for rapid inflation rates that Americans have rarely seen. In order to combat this, the Brazilian govt changed its currency in the summer of 1994. FTP name this new currency which was valued at a dollar when introduced and surprisingly has more or less maintained this exchange parity for over a year.

Ans: REAL (pronounced hey-al) or REAIS (hey-ess)

14. FTP name the famous producer/director duo which is responsible for such highly acclaimed period pieces as Jefferson in Paris, Maurice, Howard's End, A Passage to India, The Remains of the Day, and A Room with a View.

Ans: James IVORY and Ismail MERCHANT

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15. Seriously wounded on Sept. 17, 1925 when a hand rail pierced her body in an accident involving a bus and a streetcar, she suffered from back pain for much of her life and was often confined to a wheelchair. This Mexican painter often expressed her anguish in bizarre scenes which she created on canvas. FTP name this painter and wife of famed muralist Diego Rivera.

Ans: Frieda KAHLO (de Rivera)

16. In keeping with the monochromatic theme of Penn Bowl, FAQTP name the little red-headed girl Charlie Brown dreams about and finally kisses in It's Your First Kiss, Charlie Brown.

Ans: HEATHER

17. His name is Gedhun Choekyi Nyima if the Chinese government doesn't get its way. The last one died in January 1989 and Nyima will be the 11th incarnation of the god Amitabha of the Gelugpa school of Buddhism. FTP, name his title, which resembles that of the leader of Tibet.

Ans: PANCHEN LAMA (prompt on Amitabha (go Guy Jordan))

18. When a liquid, especially water, is placed in a tube, adhesion and cohesion allow a liquid to climb up the wall of the tube and form a parabola when seen from the side. This is called a meniscus. FTP spell meniscus.

Ans: M-E-N-I-S-C-U-S

19. "Positive: Mistaken at the top of one's voice." "Bride: A woman with a fine prospect of happiness behind her." "Orphan: A living person whom death has deprived of the power of filial ingratitude." These acidic definitions and more can be found in, FTP, what volume by Ambrose Bierce?

Ans: THE DEVIL'S DICTIONARY (or THE CYNIC'S WORD-BOOK)

20. This 87-year-old actor has been in frail health lately, but we remember him for his Oscar winning role opposite Cary Grant and Katherine Hepburn in "The Philadelphia Story" and the role of a crippled photographer opposite Grace Kelly in Alfred Hitchcock's classic "Rear Window." FTP, name this actor best known for his leading role in Frank Capra's "It's a Wonderful Life."

Ans: James (or Jimmy) STEWART

21. This condition is caused by a slight horizontal or vertical flattening of the cornea. The result is an inability of the eye to simultaneously focus light rays arriving in different planes. However, contact lenses can minimize its effects. FTP name it.

Ans: ASTIGMATISM

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22. James Monroe ran unopposed, but did not receive all of the 232 electoral votes in the 1820 election. FTP, which cabinet member and future president of the US received one electoral vote from William Plummer of New Hampshire?

Ans: JOHN QUINCY ADAMS

23. Its time for another Greek mythology question with a twist - it's a Jovian moon named for a Greek mortal loved by Zeus question! FAQTP, name the maiden who was loved by Zeus and was changed by Hera into a heifer. We know her today as the most active moon of Jupiter.

Ans: IO

24. Contrary to popular belief, they are not related to penguins, but rather to the extinct great auk, and their range covers the Atlantic between Spain and Massachusetts. Their populations have dwindled since the 1970s because of the lack of herring to eat, but have recently begun to breed in the United States. FTP, name this bird, whose brilliantly coloured beaks and black and white bodies make it appear to be a small version of a penguin.

Ans: PUFFIN

- Ans: HEART, LUNGS, LIVER

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8. Give the first name of these Smiths for the stated number of points.

5 pts: The NFL leader for rushing yardage in 1995.

Ans: EMMITT

10 pts: Founder of the Church of Jesus Christ of the Latter-Day Saints.

Ans: JOSEPH

15 pts: American sculptor in iron who created the "Zig" and "Cubi" series.

Ans: DAVID

9. FTP each given the country name its capital.

A. Saudi Arabia

Ans: RIYADH

B. Oman

Ans: MUSCAT

C. Qatar

Ans: DOHA

10. 30-20-10 Name the mathematician.

30: He stated the law of conservation of mechanical energy for motion under the influence of gravity and investigated oscillations of the pendulum.

20: His *Traite de la Lumiere* extended the wave theory of light and with Fresnel he first treated a wave front as a point source emitting a spherical wave.

10: He invented the pendulum clock and discovered the rings of Saturn.

Ans: Christiaan HUYGENS

11. The *Book of Mormon* was engraved upon sheets of metal and four kinds of metal record plates are spoken of in the book itself. For 5 pts each and 10 pts extra for all four, name them.

Ans: Plates of NEPHI, MORMON, ETHER, and BRASS

12. Volcanoes come in all shapes and sizes. Given descriptions of three types of volcano, name the type FTP each.

A. This simplest type of volcano rarely rises more than 1000 feet high and is made up of lava fragments which fall to form a circular or oval cone.

Ans: CINDER CONES

B. They feature a conduit system by which lava rises to the surface. They are large, steep sided, symmetrical cones built from lava flows and ash, featuring a central crater which contains either a central vent or clustered group of vents.

Ans: COMPOSITE VOLCANOES

C. These are built entirely of basaltic lava flows which pour in all directions from a central vent.

Ans: SHIELD VOLCANOES

13. FTP, name the film for which Clark Gable won a Best Actor award in 1934.

Ans: IT HAPPENED ONE NIGHT

FTP each, name the two films for which Olivia de Havilland won the Best Actress award in 1946 and 1949.

Ans: TO EACH HIS OWN and THE HEIRESS

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14. 30-20-10 Name the composer.

30: His three best friends were Josef von Spaun, Franz von Schober, and Johann Vogl. They tried to make such works as *Der Erlkonig* known.

20: In 1811 he began to study theory and composition with Salieri and wrote his earliest song, *Hagars Klage* (*Hagar's Lament*) during this period.

10: Some of his famous works include the *Quartettsatz*, the "Great" *Symphony* in C minor, and *An die Musik*.

Ans: Franz Peter SCHUBERT

15. Private individuals are supporting higher education very strongly these days. FTP given a description, name the individual.

A. Although she never attended the university, Gallaudet University was bequeathed \$4.4 million in her will.

Ans: Olive SWINDELLS

B. He graduated with an engineering degree but made it big on Wall Street. He donated \$55 million to the Johns Hopkins University.

Ans: Michael BLOOMBERG

C. Another engineering major, he now owns the largest construction company in Hong Kong. He donated over \$100 million to Princeton University.

Ans: Gordon WU

16. The cornerstone of Jimmy Carter's foreign policy program was a commitment to human rights. For this reason, Carter suspended foreign aid to three countries while he was President. FTP each, name them.

Ans: ARGENTINA, URUGUAY, UGANDA

17. Advances in medicine and science have been prominent in the news recently. Name them FTP each.

a. Drug already used to dissolve blood clots in heart attacks that was recently shown to dramatically minimize the effects of strokes.

Ans: tissue plasminogen activator

b. Either of two substances recently shown to be able to control the urge to eat. One lowered mice weight by a third, one controlled the eating urge in minutes.

Ans: LEPTIN, GLP-1

18. Henry Clay ran for President three times unsuccessfully and served as Speaker of the House thrice. For 5 pts each, state the three election years in which he ran as his party's nominee for President.

Ans: 1824, 1832, 1844

For 5 pts each, state the three presidential election years during which he presided as Speaker of the House but was not nominated for President.

Ans: 1812, 1816, 1820

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19. FTP each answer these questions about the election of 1896.

A. "You shall not crucify mankind upon a cross of gold" was the rallying cry of the Democratic party who nominated this Populist candidate.

Ans: William Jennings BRYAN

B. William McKinley was this man's candidate who virtually bought the Republican nomination by spending \$100,000 at the St. Louis convention and \$7 million to see that McKinley got elected.

Ans: Mark HANNA

20. FTP each name the individual described.

A. He was Boris Yeltsin's longest serving cabinet officer as Russia's prime minister, but was pushed out because of his pro-Western stands.

Ans: Andrei KOZYREV

B. This Socialist Prime Minister resigned as head of Japan's government and was replaced by Ryutaro Hashimoto.

Ans: Tomiichi MURAYAMA

C. This Greek Prime Minister has been gravely ill, while circulating stories about his dilettante wife have damaged his reputation.

Ans: Andreas PAPANDREOU

21. 30-20-10 Identify the geographical region.

30: Aragon, Pisa, and Genoa contested its ownership for seven centuries until a 1729 rebellion brought a brief period of independence.

20: It was the first French department liberated during World War II.

10: This Mediterranean island was the birthplace of Napoleon Bonaparte.

Ans: CORSICA

22. FTP each, given a name from Orwells's *Animal Farm*, tell me what kind of animal it was.

A. Benjamin

Ans: DONKEY

B. Muriel

Ans: GOAT

C. Moses

Ans: RAVEN

23. Given works of art, FTP each name the museum in which they are found.

A. *I in the Village* by Chagall, *The Persistence of Memory* by Dali, *Broadway Boogie-Woogie* by Mondrian

Ans: MUSEUM OF MODERN ART

B. *At the Moulin-Rouge* by Toulouse-Lautrec, *Nighthawks* by Hopper, *The Bath* by Cassatt, *A Sunday Afternoon on the Isle of Grand Jatte* by Seurat

Ans: ART INSTITUTE OF CHICAGO

C. *Dr. Paul Gachet* by Van Gogh, *Rouen Cathedral* by Monet, *Arrangement in Black and Gray: the Artist's Mother* by Whistler, *The School of Dance* by Degas

Ans: MUSEE D'ORSAY

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24. FTP each give the mascot of:

- A. the US Military Academy Ans: MULE
- B. the US Naval Academy Ans: GOAT
- C. the US Air Force Academy Ans: FALCON

25. With the signing of the Dayton peace accords on dec. 14, the war-torn republics of Serbia, Bosnia, and Herzegovina were divided into three main sectors now monitored by peacekeeping forces from the US, Britain, and France. FTP each name the regional headquarters of:

- A. the US Ans: TUZLA
- B. Britain Ans: MRKONJIC GRAD
- C. France Ans: SAREJEVO

26. FTP each tell me what happens to the price and quantity supplied (do they increase or decrease) of the specified product in the following three scenarios. Both answers must be correct for the 10 pts.

- A. The price of steel increases. What happens to price and quantity of cars?
Ans: price INCREASES, quantity DECREASES
- B. The price of milk decrease. What happens to price and quantity of Oreos?
Ans: price INCREASES, quantity INCREASES
- C. More farmers enter the dairy industry. What happens to price and quantity of milk?
Ans: price DECREASES, quantity INCREASES