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1. They began when the simpleminded ruling king lapsed into insanity, and a group of barons led by Richard Neville set up a member of the rival house as protector of the realm. Henry VI recovered and tried to reestablish his authority, leading to the first battle at St. Albans. Subsequent battles included Barnet, Towton, and the final battle at Bosworth Field. FTP name the English civil wars that lasted from 1455 to 1485, named for the flowers symbolic of the two rival houses, Lancaster and York.

Answer: Wars of the Roses

2. Administered by two councils and a governor, its largest cave is Saint Michaels, and its highest elevation is 1396 feet. 1967 saw its rejection of an annexation attempt by Spain. Its population today is about 30,000, not including the Barbary Apes. FTP, name this British possession at the mouth of the Mediterranean Sea.

ANSWER: Gibraltar

3. The main problem with his theory is that it could easily be arranged horizontally as well as vertically. People may need basic physical comforts as well as self-esteem and understanding at the same time, instead of first fulfilling physical, then safety needs, then moving on to "higher-level" needs. Putting his requirements in a pyramid, he described what was needed to reach the highest level. FTP, name this psychologist, who tops his pyramid with self-actualization.

Answer: Abraham Maslow

4. Dickens described the protagonist of this novel as a "Pip without flaws." Minor characters include Tommy Traddles, Clara Peggotty, and the protagonist's cousin Em'ly who elopes with his old school friend Steerforth. Featuring the memorable Uriah Heep as the "umble" villain, it traces the life of the title character from birth to his second marriage to Agnes Wickfield. FTP, name this Dickens novel that shares its name with a famous magician.

Answer: David Copperfield

5. Legend has it that it was created by the man who first united all of China and was her first emperor. He reportedly civilized China, then surveyed the vast diversities and movements, their relations, and himself, and using his vast intellect he compiled a mathematical description of the universe. The results were 64 kua, or line designs, which combined described the universe fully. Originally sticks were used, but coins can also be used to divine the knowledge contained in the work. FTP, name this work, the ancient text developed by Fu His, which uses hexagrams to divine answers.

Answer: I Ching

6. Its PV diagram consists of two isotherms and two adiabats. Its efficiency is dependent only on the temperatures of the two reservoirs between which it operates. In fact, if the low temperature reservoir could be maintained at absolute zero, it would have 100% efficiency, but of course this is impossible because of the third law of thermodynamics. There is a theorem that states that no heat engine operating between two temperatures can be more efficient than one of these devices operating between the same two temperatures. FTP, name this most efficient of engines.

Answer: Carnot engine or cycle

7. The story is about two dreamers who want their own farm. One is a large, lumbering man; the other is small, wiry, and quick-witted. The large man has a tendency to rub soft things; this habit had gotten both into trouble, when the large man was accused of rape. Lennie, the large man, is mentally retarded, and ends up killing a woman when he was trying to get her to be quiet. George, Lennie's constant companion and co-dreamer, kills Lennie to keep him from being attacked by a lynch mob. FTP, name this Steinbeck work that describes the consequences of the Depression.

Answer: *Of Mice and Men*

8. Intercepted by members of Blechley Park Intelligence over a wiretapped neutral line, it broke the Sussex pledge. Stating that "We intend to begin unrestricted submarine warfare and shall endeavor to keep the United States neutral: We make Mexico a proposal of alliance with an understanding that Mexico is to reconquer the lost territory in Texas, New Mexico, and Arizona. FTP, name this World War I telegram whose name comes from the German who sent it.

ANSWER: Zimmerman Telegram

9. The first track of this double-CD album is the title track, an instrumental featuring piano and assorted strings. The second CD features songs like the pensive "Farewell and Goodnight" and the drivelingly monotonous "X.Y.U." Singles released from this album include "Tonight, Tonight," "1979," and "Bullet with Butterfly Wings," all written by the band's lead singer Billy Corgan. FTP name this 1995 album comprised of "Dawn to Dusk" and "Twilight to Starlight," recorded by the Smashing Pumpkins.

Answer: *Mellon Collie and the Infinite Sadness*

10. It was dedicated to St. Lawrence to commemorate the 1557 victory over the French at Saint-Quentin; it is said that it was planned in the shape of a gridiron because St. Lawrence was roasted on one. Notable artistic points about the building include the large domed church constructed in the Doric style and the square known as the Court of the Four Evangelists. It was also used as a burial chamber for generations of Spanish kings and houses many paintings by Velazquez, Goya, and Titian. FTP, name this museum and palace built by Philip II.

Answer: El Escorial

11. These organic substances undergo hydroboration-oxidation to form ketones or aldehydes. They are formed by the double dehydrohalogenation of alkyl dihalides and undergo reduction by Lindlar's catalyst to alkenes. FTP, name this class of organic compounds which contain a triple bond.

ANSWER: Alkynes

12. Recent PET and MRI test scans of this area uncovered surprisingly high activity during tests of sensory discrimination combined with movement. The part of the brain most affected while drinking, it coordinates smooth movement and maintains balance and posture. FTP, name this part of the brain whose name is derived from the Latin for "little cerebrum".

ANSWER: Cerebellum

13. At its premiere in 1916, the cleaning ladies dropped their mops and danced spontaneously to the dance music of the fourth movement. The runs of the third movement represent a speedy messenger while the first movement, in the irregular 5/4 time, refer to the rhythms of World War I. FTP, name this symphonic piece whose fourth movement is *Jupiter*, whose third movement is *Mercury*, and whose first is *Mars, the Bringer of War*.

ANSWER: *The Planets*

14. His theories resemble those of Democritus in that he says the world is made of atoms. However, he says that the atoms have weight and swerve, which explain why the atoms move around and cause the bodies that they comprise to move. His theories were made to explain the world mechanistically, instead of basing explanations on the "will of the gods." Thus much of his work was probably destroyed by the early Christians, since they thought his philosophy godless. FTP, name this Greek philosopher, the founder of a movement which bears his name.

Answer: Epicurus

15. Her plans to marry Grigory Orlov were foiled by her political mentor, so she reigned alone, although she took many lovers, notably Grigory Potemkin. Important events in her reign include the signing of the 1774 Treaty of Kuchuk Kaynarca with Turkey, which gave Russia the northern shore of the Black Sea, the annexation of the Crimea, and the expansion into the Urals and along the Caspian. FTP name this German-born Russian empress who reigned from 1762 to 1796.

Answer: Catherine the Great (II)

16. Born to the nymph Liriope and the river-god Cephissus, it was prophesized this boy would live long if he didn't come to know himself. At sixteen, he was beautiful but so proud that none dared approach him. His scornful rejection of one nymph made her waste away to only a voice. But what goes around comes around, and when he caught sight of himself in a pool he became infatuated with himself and died sick with longing for his own reflection. FTP name this mythological youth beloved by Echo.

Answer: Narcissus

17. It is somewhat unique in that most of its adherents also follow another religion. Lacking much organization and a fully developed theology, the religion centers on worship of numerous deities that come in many varieties. Amongst these deities are Izanagi-no-mikoto and Izanami-no-mikoto, who gave birth the Japanese islands and the Sun Goddess Amaterasu, the main deity of this religion. FTP, name this religion which is based on the worship of the kami.

Answer: Shinto

18. His first work argued for a negative income tax, or guaranteed income, to supercede practices such as social welfare. Quite possibly the inventor of the idea behind school vouchers, he argued that all forms of professional licensing should be abolished, as the market forces themselves can protect the consumer. A great proponent of *laissez-faire* economics and the Federal Reserve system, he wrote many books including *A Monetary History of the United States, 1867-1960*. FTP, name this winner of the 1976 Nobel Prize in Economics.

Answer: Milton Friedman

19. This is the basis of most of the biological research occurring today, but was very hard to prove. First, Griffiths and Avery had to prove that transformation occurred via DNA. Then, the nature of DNA had to be found by Watson, Crick, Meselson, and Stahl. Then it had to be shown that mRNA was the messenger, and that it coded for proteins. Only then could this statement be made, the major tenet of molecular biology. FTP, give its name, the statement that says that DNA leads to RNA which leads to proteins.

Answer: central dogma

20. After running away from his seminary in Maulbronn, he expressed his contempt for conventional schooling in his 1906 novel *Beneath the Wheel*. His fascination with Jung's psychology led to the 1919 novel about a troubled adolescent that made him famous throughout Germany. Though he rebelled against his father's wish for him to become a minister, he shared his father's love of India and wrote extensively

about it, including the novella *Journey to the Orient* and his novel *Siddhartha*. FTP name this German novelist, author of *The Glass Bead Game*, *Demian*, and *Steppenwolf*.

Answer: Hermann Hesse

21. It was originally passed to ensure the building of a transcontinental railroad through Northern, rather than Southern states by increasing white settlement in Native American lands. The provision to allow slavery above 36° 30' ensured southern support. Sponsored by Stephen Douglas, FTP, name this act named for the two states whose status as a free or slave state persisted as a bone of contention up until the Civil War, signed on May 30th, 1854.

ANSWER: Kansas – Nebraska Act

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His ultimately unhappy marriage inspired his 1879 satiric novel *The Red Room*. His social criticism continued in his plays, such as 1883's *Lucky Peter's Travels* and *The New Kingdom*. He espoused Naturalism with its unaffected dialogue and stark scenery, and the colloquial language of his early novels and short stories revolutionized Swedish prose style. FTP name this Swedish dramatist and author of *The Ghost Sonata* and *Miss Julie*.

Answer: Johan August Strindberg