PARFAIT Round 2

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1   Maryland A Tossups, Round 2

1. A pure aplasia of them is often caused by a thymoma, or tumor of the thymus. They can take on a "rouleux" formation if serum proteins like fibrinogen and globulins increase. This causes their sedimentation rate to increase, suggesting acute inflammation. They become schistocytes, or fragments of normal cells, in conditions like disseminated intravascular coagulopathy, Inclusion of Howell-Jolly bodies, or nuclear chromatin, suggests the lack of a spleen. In spherocytosis, they lack the central "zone of pallor" and are spherical due to lack of the membrane protein, spectrin. This decreases their large surface area-to-volume ratio. For ten points , name these corpuscles that have no nuclei, but lots of hemoglobin.
   Answer: **Red Blood Cells/Corpuscles** or **Erythrocytes**

2. In Lavater's *Sermons on the Existence of the Devil and his Deeds*, he uses this word to name the power that motivates Satan's actions. Kant, in his dissection of vices, grouped it under the "evil" category with unthankfulness and envy. Schopenhauer calls its derision the laughter of Hell, and Archbishop R. C. Trench is generally believed to be the first English writer to use the word, saying its very presence denoted the degeneracy of Prussian society, although the English word "epicaricacy" comes close. For ten points , every time the other team negs, you will undoubtedly experience this phenomenon, a German term meaning pleasure taken from someone else's misfortune.
   Answer: **Schadenfreude**

3. After declaring herself thankful that she's not a slut, but very glad that she's foul, Audrey agrees to be married by Sir Oliver Martext. On the day of the wedding, Duke Frederick realizes that usurping the throne of Duke Senior was a silly idea. Additionally, the children of the deceased Sir Roland de Boys fight over their inheritance, with Oliver plotting against his younger brother until he saves him from a lioness. In addition to the marriage between Celia and Oliver, Phoebe and Silvius, Audrey and Touchstone, and Rosalind and Orlando, for ten points , in what Shakespeare play does Jacques proclaim that "All the world's a stage?"
   Answer: **As You Like It**

4. When first we meet him, the narrator notes that he is a man "upon whose face a painter, like the historian, would have concentrated all the light in his picture." He made his fortune through a vermicelli factory, and at age 69 retired, splitting his fortune between his two daughters, Anastasie [ahn-ah-stah-ZEE] and Delphine [dehl-FEEN]. They proceed to cut him out of their lives, but when a boarder at Maison Vauquer [may-SOHN voh-KAY]shows interest in Madame de Restaud [reh-STOH] and Madame de Nucingen [noo-SAY-john], he attempts to live vicariously through the young suitor. Sadly, Eugene Rastignac [rah-STEE-nahk] only alienates the daughters further from, for ten points , what titular Balzac character?
   Answer: **Père Goriot** or **Old Goriot**

5. Gu_4 Jie_2gang_1 and $Qian_2$ $Xuan_2tong_4$ founded Yi_2 Gu_3pai_4 to contest that it ever happend. They managed to prove that Yu_3, who was thought to have begun it, was purely fictional.

Archeological evidence at $Er_4li_3tou_2$, however, suggests that perhaps the corrupt Jie_2 did rule over the last days of this dynasty, preceded by the legends of the Three August ones and the Five Emperors and lasting from 2033 to 1562 BC, this is, for ten points , what first, semilegendary dynasty of China, followed by the $Shang_1$ dynasty?

Answer: <u>Xia$_4$</u> chao$_2$

6. Hu et al at IBM Armonk noted that adding associativity of one of these increased power consumption by 54%. That increase in a 16K two-way associative one happens because searches are conducted in parallel. Direct mapped ones means that addresses are mapped to only one location, saving energy but creating a high miss rate and thrashing for data mapped to the same location. Most processors have a hierarchy of them, including L1, L2, and L3, which write-through or write-back to RAM. For ten points , name this part of the computer that temporarily holds data for faster access.

Answer: <u>Cache</u>(accept L1 cache early)

7. Chapter eleven, "The Belief in Luck," states that modern conceptions of luck arose from a primitive belief of animism. Chapter ten, "Modern Survivals of Prowess," asserts that sports arose from a predatory emulation of war and hostility. It delineates four stages of history: peaceable savagery, lower barbarism, higher barbarism, and modern industrial society. Jobs in government, warfare, religion, and sports are the only accepted occupations of the titular institution in, for ten points , what 1899 work that coined the terms "pecuniary emulation" and "conspicuous consumption" and was written by Thorstein Veblen?

Answer: The <u>Theory of the Leisure Class</u>

8. The first step toward building a geometry for this model is picking an invariant metric on the circle that is the fiber of the U(1) bundle of electromagnetism. Problems with this model include the fact that the theory is not a quantum field theory and that the fermions must be introduced in an artificial way. Nonetheless it remains an important step toward a grand unified theory. An attempt to extend general relativity to a five-dimensional spacetime, this is for ten points , what theoretical model attributed to a pair of alliterative physicists?

Answer: <u>K</u>aluza-<u>K</u>lein theory

9. If one can learn anything from this series, it is to never leave your house. The main character's wife is hit by a car and banished, while Fahmy is martyred by a British bullet. That opinion is extolled by the patriarch, who prevented the women of his family from leaving the house alone, even for prayers at the mosque of Hussain. Amina, who wonders if the communists are of Shi'ah or Ali and represents the bulwark agains the domestic despot of al-Sayyid Ahmad al-Jawad, is only confused by her communist, gay, and fundamentalist progeny between World War I to the overthrow of Farouk. Composed of *Palace Walk*, *Palace of Desire*, and *Sugar Street*, for ten points , identify this triad of novels written by Naguib Mahfouz.

Answer: <u>Cairo Trilogy</u>

10. Thirty years before others would write *Principia Mathematica*, he and O. H. Mitchell developed a system for quantified logic. In his 1877 paper "The Fixation of Belief," he

argued that philosophy does not build on an ideal foundation, but instead springs from the conditions of its environment. This paper, presented at the Metaphysical Club, hoped to reconcile religion and science in the face of Darwinism and defined inquiry as a means to affirm belief in his "laboratory philosophy." For ten points , who was this American philosopher who established the philosophy of pragmatism?

Answer: **Charles Sanders Peirce**

11. Although its creator spent much of the time in Rome at the sacristy of the Basilica of St. Peter working on *Burial of Christ*, it took only 5 years to complete and may have been intended for an open space in Florence. People pulling a cart can be seen in the elaborate helmet, which may have stood for the dukes of Milan with whom its creator's patrons have been at war. The body of a youth was used to model the title figure, who wears a wreathed hat and holds a long sword with his right hand. Held at the Bargello, for ten points name this first freestanding nude since antiquity, a bronze sculpture by Donatello showing a boy stepping on the head of Goliath.

Answer: **David**

12. Featuring music from John Adams, J.S. Bach, Christopher Tin, Beethoven, and Jeff Briggs, its opening, Baba Yetu, sounds suspiciously like that of the *Lion King.* In order to use the Gamebryo engine, it's written in C++, but it uses boost.python ["boost" "dot" "python"] to integrate Python code to handle the user interface and AI. The XML file `FormationInfos` allows modders to change unit groupings, a new feature in this version, and governments have been replaced by a melange of freedom, religious, and social options. With a more flexible tech tree, restored wonder videos, and customizable units, this is, for ten points , what latest offering from Firaxis in a turn-based strategy series developed by Sid Meier?

Answer: **Sid Meier's Civilization IV**

13. During the first conflict of this battle, Quartermaster Wade captured Everheart, who was part of the videttes led by Joshua Inman sent to reconoiter the advance dragoons crossing Macedonia Creek. After driving the colonials along Mill Gap Road, Howard's troops seemed to retreat, and Colonel Tarlington ordered his dragoons to charge and pursue. Unfortunately for the British, at this point the riflemen held in reserve by General Morgan attacked from cover, and the American cavalry rode in from the other side, allowing the Americans to defeat a superior British force at, for ten points , what January 17, 1781 battle in North Carolina?

Answer: **Battle of Cowpens**

14. He makes his home in Landvidi and is preordained to return with his brother Vali following the rebirth of the world after Ragnarok. The god of silence, stealth and revenge, his shoe consists of strips of leather which men pare off at the toes and heels of their shoes to strengthen it. Although in the Voluspa he uses his sword to accomplish his most remarkable feat, the shoe comes in handy in the Vafrúnismál. For ten points , identify this son of Odin who avenges the death of his father by stepping on the lower jaw of Fenrir and tearing the beast in twain.

Answer: **Vidar** "the silent"

15. Its farthest headstream rises in the Frankenberg mountains, about 193 kilometers from the Indian Ocean. Its total course runs about 2,200 kilometers westward, and it empties at Alexander Bay into the Atlantic Ocean after flowing along the southern boundary of the Free State area, equidistant from Walvis Bay and Cape Town. For ten points , identify this South African River that forms the border between it and Lesotho.
    Answer: **Orange River**

16. It claims that "the dying are freed by death from all penalties" and that "no one is sure that his own contrition is sincere." Criticized by Johann Eck, it cites the legend of St. Severinus and St. Paschal as examples of souls in purgatory, and includes six consecutive questions beginning with the word "again." Prompted by the archbishop of Mainz's appointment of Johann Tetzel, it notes that only the grace of God can grant pardons and calls papal pardons madness in number 75. Raised against Albert of Brandenburg and posted on a Wittenberg church door, for ten points name this set of statements, a *Disputation on the Power and Efficacy of Indulgences*, by Martin Luther.
    Answer: **Ninety-Five Theses**

17. In 1867 she lost her husband and four children to a yellow fever epidemic in Memphis, and in 1871 she lost her home and dressmaking shop in the Great Chicago Fire, forcing her into work as a seamstress. As recounted in her autobiography dictated to Mary Field Parto, she was court-martialed in 1913 in Pratt, West Virginia at the age of eighty-three for supporting the UMWA. One of 27 people and the only woman to sign the 1905 manifesto of the Industrial Workers of the World, she called upon her supporters to "pray for the dead and fight like hell for the living!" For ten points , what labor organizer's name serves as the title of a magazine found on every hippie's makeshift milk crate cum coffee table?
    Answer: **Mary Harris "Mother" Jones (accept MoJo)**

18. While acting as a special envoy to the Soviet Union in Kuibyshev, he was so impressed by a wartime production of *Swan Lake* that he jumped from his box to the stage to present Irina Tikomirova with a bouquet. Along with Eleanor Roosevelt, he founded Freedom House in 1941, and his 1943 book *One World* called for a system of international peacekeeping. In 1933, as the president of the largest electrical utility holding company in the United States, he began a series of clashes with the Tennessee Valley Authority, causing him to switch to the Republican Party in 1939. FTP, identify this Indianan who got only got 82 electoral votes against FDR's 449 in 1940.
    Answer: **Wendell Willkie**

19. One version of this law applies to the solubility of a noble gas in contact with silicate melt and is commonly used in geophysics. The inverse of the constant used in this law is called the molar solubility of the gas. The constant generally increases with temperature, explaining why the solubility of gases generally decreases with temperature. Stating that the concentration of a solute gas in a solution is directly proportional to the partial pressure of that gas above the solution, this is for ten points , what gas law, not to be confused with Raoult's law?
    Answer: **Henry's law**

20. In 1930, Sergei Eisenstein's adaptation of it was rejected by Paramount, while later notable versions of it were directed by Josef von Sternberg in 1931, and George Stevens in 1951. Its plot draws heavily from the 1906 murder trial and conviction of Chester Gillette. The protagonist enters into a relationship with Roberta Alden, but soon spurns her for the wealthier Sondra Finchley. After Roberta tells him of her pregnancy, he takes her to Big Bittern Lake, where she drowns after being struck inadvertently by his camera. FTP, name this 1925 novel about the subsequent trial and execution of Clyde Griffiths, written by Theodore Dreiser.

    Answer: **An American Tragedy**

2   Maryland A Bonuses, Round 2

1. Identify these topics related to a philosopher for ten points each.

   10 This Algerian-born French literary critic and 20th century philosopher wrote such works as "Of Grammatology," and "Structure, Sign, and Play in the Discourse of the Human Sciences," and delivered a famous speech titled "Différance."
   ***Answer:* Jacuqes Derrida**

   10 Derrida is widely considered the founder of this school of philosophy that rejects the idea that texts can have a single clear and concrete meaning for all consumers.
   ***Answer:* deconstructionism or deconstructionalism**

   10 As part of his work in deconstructionism, Derrida created this neologism to describe the tendency of Westerners to define the central point of a discourse using binary concepts and representations of the male genitalia.
   ***Answer:* phallogocentrism**

2. 5 for one, 10 for two, 20 for three and 30 for all four, identify the four primary Mesopotamian deities from descriptions.

   5 The oldest of the pantheon, he was the god of Heaven.
   ***Answer:* An (or Anu)**

   5 She was the goddess of the earth.
   ***Answer:* Ki**

   5 The inventor of the hoe, he was the god of the air and storms.
   ***Answer:* Enlil (or Ellil)**

   5 This god of water and earth voluntarily passes his powers onto his son, Marduk.
   ***Answer:* Enki (also Ea)**

3. Identify these operas for ten points each.

   10 This Puccini opera was based on a story by Henri Murger and centers on the relationship between Mimi and Rodolfo.
   ***Answer:* La Boheme**

   10 Also beset by TB, Violetta falls in love with Alfred who later duels Baron Duophol in this Verdi opera based on a Dumas story.
   ***Answer:* La Traviata**

   10 Based on a novella by Gottfried Keller, this six-scene opera about feuding in the Swiss Alps is probably the best known composition of Frederick Delius.
   ***Answer:* A Village Romeo and Juliet**

4. Identify these indie bands whose songs the author heard between stories on NPR's "All Things Considered" in the past week for ten points each.

10 This so-called indietronic band features singer Ben Gibbard of Death Cab for Cutie and producer Jimmy Tamborello of Dntel. Their debut album "Give Up" combined mechanical tracks with poppy hooks on such songs as "The District Sleeps Alone Tonight" and "Such Great Heights."
***Answer:* The <u>Postal Service</u>**

10 This indie folk-pop duo from Bergen debuted with *Quiet is the new Loud*, but has been talked up for their single *I'd Rather Dance with You* from *Riot on a Quiet Street*.
***Answer:* <u>Kings of Convenience</u>**

10 This artist's newest album begins with "E-Pro," similar to Odelay's "'Novocain;"name this artist of *Guero* best known for "Loser" and "Where It's At."
***Answer:* <u>Beck</u> Hansen Campbell**

5. Identify these shocking electrical laws for ten points each.

10 This law gives the direction of an induced electromotive force resulting from induction. A right-hand rule gives you the direction the current will flow in a closed loop such that the produced magnetic field opposes the change in magnetic flux.
***Answer:* <u>Lenz</u>'s law**

10 Lenz's law can be seen as a result of this law, that states that the magnitude of an induced emf is proportional to the rate of change of the flux linkage.
***Answer:* <u>Faraday</u>'s law of induction**

10 This law named for two French physicists is magnetostatics' answer to Coulomb's law. It describes the magnetic field created by a stead current density.
***Answer:* <u>Biot-Savart</u>'s law**

6. Lakes of eastern Africa for ten points each.

10 This second largest lake of Africa is found south of Lake Kivu and west of Lake Rukwa on the border between Burundi, Zambia, Tanzania, and the Democratic Republic of Congo.
***Answer:* Lake <u>Tanganyika</u>**

10 Also called Ukerewe for the largest island on it, this is drained by the Nile, which flows out of it at Jinja, Uganda.
***Answer:* Lake <u>Victoria</u>**

10 Found on the border of Zambia and the Democratic Republic of the Congo, this lake is located southwest of Lake Tanganyika between the Luapula and Luvua rivers.
***Answer:* Lake <u>Mweru</u>**

7. The PATRIOT act ain't got nothing on these suckas. Answer the following questions related to the Alien and Sedition Acts for ten points each.

10 The Alien and Sedition Acts were passed while the congress was controlled by this party, who hoped to decrease the influence of the Democratic-Republicans.
Answer: Federalists

10 In response to the Alien and Sedition Acts, Thomas Jefferson and James Madison guided resolutions through the legislatures of what two states stating that the federal government had no right to exercise powers not specifically delegated to it?
Answer: The Kentucky and Virginia Resolutions

10 Though the acts were never put under judicial review, the court has drawn comparisons to it by analogy, such as in this 1964 case which established the "actual malice" standard for libel.
Answer: New York Times v. Sullivan

8. It is best remembered by non-historians for its bloody first day, on which the British suffered over 57,000 casualties. For ten points each ...

10 Identify this 1916 battle of World War I, which was Field Marshal Douglas Haig's attempt to punch through the Western Front through sheer force of numbers.
Answer: First Battle of the Somme

10 The British made slow advances through the German line until August 29, when Paul von Hindenburg replaced Erich Falkenhayn as German chief of staff and began to build this defensive formation named for a Wagnerian hero.
Answer: Siegfried Stellung or Siegfried Position (prompt on "Hindenburg Line")

10 The tank debuted during this September 15 battle, but its effect on the British victory is questionable, as fewer than half of the 49 tanks prepared even saw action.
Answer: Battle of Flers-Courcelette

9. Answer the following questions related to cell organelles for ten points each.

10 The Golgi apparatus may transport proteins within the cell by means of these closely packed folds.
Answer: cisternae

10 Zellweger's syndrome is caused by the inability of this organelle found in liver cells to process very-long chain fatty acids, and may affect myelin sheath growth.
Answer: peroxisome

10 This plastid, usually found in root cells, may become specialized to store starch, lipids, or proteins, but is otherwise used in fatty acid and amino acid synthesis.
Answer: leukoplast

10. Name these people profiled in John Dos Passos' trilogy U.S.A. for ten points each.

10 "Lover of Mankind" tells the story of this labor leader, who ran for president five times under the Socialist Party and who was jailed in federal prison for his opposition to World War I.
Answer: Eugene V. Debs

10 "Adagio Dancer" describes this actor, who was known as "the pink powderpuff" and starred in The Four Horsemen of the Apocalypse.
    ***Answer:* Rudolph <u>Valentino</u>**

10 "Paul Bunyan" depicts this logger and IWW member who was castrated and hanged by the businessmen of Centralia, Washington in 1919.
    ***Answer:* Wesley <u>Everest</u>**

11. For ten points each , name these Eugene O'Neill plays given a brief description.

    10 Nina Leeds, who wanted to marry Gordon Shaw, marries Sam Evans and then has an affair with Dr. Ned Darrell.
        ***Answer:* <u>Strange Interlude</u>**

    10 Abbie Putnam marries Ephraim Cabot and seduces his son Eben, and then kills their child to prove her love for him.
        ***Answer:* <u>Desire Under the Elms</u>**

    10 Marco Polo travels to the court of Kublai Khan and does not return the passion of the Kublai's daughter, Kukachin, in this play contrasting Western materialism with Eastern asceticism.
        ***Answer:* <u>Marco Millions</u>**

12. Given some works, identify the Japanese author for ten points each.

    10 "Confessions of a Mask," "Thieves"
        ***Answer:* <u>Mishima</u> Yukio**

    10 "The Master of Go," "Snow Country"
        ***Answer:* <u>Kawabata</u> Yasunari**

    10 "A Personal Matter," "Nip the Buds, Shoot the Kids"
        ***Answer:* <u>Oe</u> Kenzaburo**

13. Identify these hard math problems from the Clay Institute's Millennium Problems list for ten points each. Solve them for a million dollars each.

    10 This conjecture, one of the oldest unsolved problem in number theory states that every even integer greater than two is the sum of two primes.
        ***Answer:* <u>Goldbach</u>'s conjecture**

    10 This problem in low-dimensional topology states that every simply connected closed 3-manifold is homeomorphic to a 3-sphere. It's looking like Grigori Perelman has a solid proof.
        ***Answer:* <u>Poincare</u>'s conjecture**

    10 This conjecture asserts that for projective algebraic varieties, these namesake cycles are ational linear combinations of algebraic cycles.
        ***Answer:* <u>Hodge</u> Conjecture**

14. For five points each, eelp the downtrodden get what's coming to 'em by identifying the group referenced in the Beatitudes of St. Matthew with their inheritance.

   5 "...for theirs is the kingdom of heaven."
   Answer: **the <u>Poor in spirit</u> or <u>they that suffer persecution for justice's sake</u>**

   5 "...for they shall inherit the earth."
   Answer: **the <u>meek</u>**

   5 "...for they shall be comforted."
   Answer: **They who <u>mourn</u> (accept equivalents)**

   5 "...for they shall see God."
   Answer: **the <u>clean of heart</u> (accept equivalents, e.g. <u>pure-hearted</u>)**

   5 "...for they shall obtain mercy."
   Answer: **the <u>merciful</u>**

   5 "...for they shall be called the children of God."
   Answer: **the <u>peacemakers</u>, prompt on "cheesemakers"**

15. Identify these Romantic artists from their paintings. Ten points for a lesser-known work, and five for one more well-known.

   10 *The Cross on the Mountain* and *The Tree of Crows*

   5 *The Wanderer above the Sea of Fog*
   Answer: **Caspar David <u>Friedrich</u>**

   10 *Yard with Lunatics* and *Blind Guitarist*

   5 *The Third of May 1808*
   Answer: **Francisco José de <u>Goya</u> y Lucientes**

   10 *The Abduction of Rebecca* and *Still Life With Lobsters*

   5 *Liberty Leading the People*
   Answer: **Eugene <u>Delacroix</u>**

16. For ten points each , name these psychologists who have performed influential experiments in social psychology.

   10 He argued for moving social experiments into the lab, but is best know for a behavioral experiment where he trained Little Albert to be afraid of a white animal. This later lead Little Albert to generalize his fear to men with white beards.
   Answer: **John B. <u>Watson</u>**

   10 Along with Carlsmith, he showed that students who were given little justification for lying about performing a tedious task tended to convince themselves that the task was interesting, helping to validate his theory of cognitive dissonance.
   Answer: **Leon <u>Festinger</u>**

10 In his Bobo doll experiment, he demonstrated that children who were shown videos of a man hitting a bobo doll were more likely to hit one when given the opportunity, contributing to his Social Learning Theory.
Answer: Albert <u>Bandura</u>

17. Given a brief description, identify the English King from the House of Wessex for ten points each.

10 This most famous Wessex king is most famous for signing the Danelaw, which gave the Danes control over East Anglia and parts of Mercia.
Answer: <u>Alfred</u> the Great

10 His famous sobriquet is actually from the Anglo Saxon for "Ill-advised", which is a good way to describe his attempt to buy off Viking invaders with the Danegeld.
Answer: <u>Ethelred II</u> or <u>Ethelred the Unready</u>

10 After defeating Beornwulf of Mercia at Ellendun in 825, Kent, Surrey, Sussex, and Essex recognized his suzerainty, which may explain why some consider him the first "King of England."
Answer: <u>Egbert</u>

18. Given a few lines from a poem, identify the author for 10 points, or for 5 if you need the title of the poem.

10 "On Hellespont, guilty of true-loves blood, / In view and opposite, two cities stood"

5 *Hero and Leander*
Answer: Christopher <u>Marlowe</u>

10 "Stone walls do not a prison make, nor iron bars a cage"

5 *To Althea, From Prison*
Answer: Richard <u>Lovelace</u>

10 "That age is best which is the first / When youth and blood are warmer / But being spent, the worse, and worst / Times still succeed the former."

5 *To the Virgins, to make much of Time*
Answer: Robert <u>Herrick</u>

19. Identify these African empires for ten points each.

10 After leading a revolt against the Soso, Sundiata led the Mandinka in a revolt and formed this empire later ruled by Mansa Musa.
Answer: <u>Mali</u>

10 One of the Aja that moved in among the Fon, Wegbaja, became its first ruler. After trading lots of slaves, it fell to the French in 1894 and became Benin.
Answer: <u>Dahomey</u>

10 A powerful confederacy including the Dahomey and Yoruba kingdoms, it was formed under Osei Tutu of Kumasi, but fell to the British in 1900 and was annexed to the Gold Coast.
Answer: <u>Ashanti</u> **empire (or confederacy)**

20. For ten points each , identify these famous Studs.

10 This Chicago author has written a series of oral histories including The Good War, Working, and Hard Times.
Answer: **Louis "Studs"** <u>**Terkel**</u>

10 Terkel received his nickname from this Irish protagonist of a James T. Farrell trilogy.
Answer: **Studs** <u>**Lonigan**</u>

10 Although this racehorse never won the Triple Crown, it won 20 out of 21 races between 1919 and 1920 before siring the Hall of Fame horses Battleship and Crusader and the 1937 Triple Crown winner War Admiral.
Answer: <u>**Man o' War**</u>

21. Identify these macrocycles from chemistry for ten points each.

10 This macrocycle, found in hemoglobin contains three pyrrole subunits and one pyrroline subunit linked by four methine bridges. The conjugated system makes the compound chromatic, and thus the name comes from a Greek word for purple.
Answer: <u>porphyrin</u>

10 If one of the pyrrole subunits in porphyrin is reduced to a pyrroline, this type of macrocycle found in chlorophyll is produced.
Answer: <u>chlorin</u>

10 This macrocycle has four pyrrole subunits joined by methylene links, with two of the pyrroles joined directly. It's found in vitamin B12.
Answer: <u>corrin</u>

22. Identify the following people from their educational theories for ten points each.

10 This Englishman's school model had every child busy all the time. Talkative students were sometimes hung from the rafters as punishment.
Answer: **Joseph** <u>**Lancaster**</u>

10 This "Schoolmaster of America" led the charge to create a dominant Protestant, Anglo-Saxon culture.
Answer: **Noah** <u>**Webster**</u>

10 The idea of the talented tenth may have originated with this Virginian statesman, who believed that future political leaders should be plucked from the rest of the talent-less masses.
Answer: **Thomas** <u>**Jefferson**</u>