Greenfield Tournament Bonus Round 3

1. (30 points) For 5 points each, identify these constitutional amendments by number.
1. It abolished slavery.
    Answer: 13
2. It gave 18-year-olds the right to vote.
    Answer: 26
3. It repealed Prohibition.
    Answer: 21
4. It provided for the direct election of Senators.
    Answer: 17
5. It abolished poll taxes for federal elections.
    Answer: 24
6. "The right...to vote shall not be denied...on account of race, color, or previous condition of servitude."
    Answer: 15

2. (30 points) Answer the following questions about the law of universal gravitation.
1. For 5 points, what English mathematician proposed the law in his Principia Mathematica?
    Answer: Sir Isaac Newton
2. For 10 points, according to the law, force of attraction is inversely proportional to what?
    Answer: distance squared or the square of the distance between the two objects
3. Finally, for 15 points, give to two decimal places and correct power of ten the proportionality constant known as the Universal Gravitational Constant.
    Answer: 6.67 times 10 to the negative 11

3. (30 points) For 10 points each, identify the river which separates each of these pairs of states.
1. It separates Washington from Oregon.
    Answer: Columbia River
2. It separates Iowa from Wisconsin.
    Answer: Mississippi River
3. It separates Texas and Oklahoma.
    Answer: Red River

4. (25 points) Identify the city 25-10
1. It was the site of the 1954 meeting which discussed a Korean War armistice and partitioned Indochina.
2. It was the site of a series of international agreements which sought to regulation and prevent abuses of war and the treatment of prisoners of war.
    Answer: Geneva

5. (30 points) For 15 points each, identify the following novels by Kurt Vonnegut from brief descriptions.
1. It is a 1963 novel in which an eccentric inventor devastates the world with a substance called ice nine.
    Answer: Cat's Cradle
2. It features Billy Pilgrim who becomes unstuck in time after surviving the bombing of Dresden during World War II.
    Answer: Slaughterhouse Five

6. Identify the following German philosophers for fifteen points each:
1) He attempted to combine elements of rationalusm and empiricism in works such as the monumental Critique of Pure Reason.
    Answer: Immanuel Kant
2) He did important work in the philosophy of history. He claimed that history is not a series of random or meaningless evnts, but rather proceeds according to a rational pattern, called the dialetic, consisting of stages known as thesis, antithesis and synthesis.
    Answer: Georg Friedrich Hegel

7. (25 points) Pencil and paper ready. Given the reaction zinc plus hydrochloric acid yield Zinc chloride plus hydrogen gas.   Given that the zinc has a valence of +2 for this reaction. For 25 points, how many

moles of hydrogen will be produced if four moles of hydrochloric acid are completely reacted with zinc? You have 25 seconds.

Answer: 2 moles (the reacted hydrogen is diatomic H2)

8. (25 points) Identify the American authors of the following works beginning with "S" for 5 points each.
1. Sister Carrie   Answer: Theodore Dreiser
2. The Sketch Book of Geoffrey Crayon
   Answer: Washington Irving
3. THe Skin of Our Teeth
   Answer: Thornton Wilder
4. The Snows of Kilimanjaro
   Answer: Ernest Hemingway
5. The Song of the Chattahoochee
   Answer: Sidney Lanier

9. (30 points) Answer the following questions about Japanese foreign policy in the early 19th century.
1. For 10 points, identify the nation with which Japan fought a war from 1904 to 1906.
   Answer: Russia (not the Soviet Union)
2. What American president received the Nobel Peace Prize for negotiating an end to that war?
   Answer: Theodore Roosevelt
3. What Treaty ended that war?
   Answer: Treaty of Portsmouth

10. (30 points) For 10 points each, identify the object at the center of these labors of Heracles.
1. For the 12th and most difficult of his labor, Heracles had to capture this creature alive in the underworld and take it to show Eurystheus
   Answer: Cerberus
2. The 9th labor required the seizure of the girdle of the queen of the Amazons. Who was she?
   Answer: Hippolyte
3. The 6th labor required that he kill vicious birds, raised by Ares, that dwelt on a lake in Arcadia where the subsisted on human flesh. What were these creatures killed by Heracles with the aid of Athena?
   Answer: Stymphalian birds

11. (30 points) Answer the following questions about spices.
1. (10 points) From what type of flower is the flavoring for natural vanilla obtained?
   Answer: orchid
2. (20 points) Identify the spice and yellow dye obtained from the Crocus sativas plant that is among the most expensive spices in the world. The reason it is so expensive is that one ounce of powder requires the stigmas from about 4000 flowers.
   Answer: saffron

12. (30 points) Answer the following questions about elections around the world for 15 points each.
1. In what southern African nation did President Kenneth Kaounde recently step down after his party lost badly in a recent election?
   Answer: Zambia
2. In what South American nation and former British colony has former President Jimmy Carter asked for an election delay because of faulty voter registration lists.
   Answer: Guyana

13. (30 points) 30-20-10 Identify this historical entity.
1. It was created by the freighting firm of Russell, Majors, and Waddell in 1860.
2. William F. Cody was perhaps the most famous person to work along its route from St. Joseph, Missouri to Sacremento, Ca.
3. Though it cut by nearly two weeks delivery time to the west coast, it was a financial disaster because of the completion of a transcontinental telegraph in 1861.
   Answer: Pony Express

14. (25 points) For 5 points each, name the 5 South American countries which border Bolivia.
   Answer: Peru, Brazil, Paraguay, Argentina, Chile

15. (30 points) The ancient Greek playwright Aeschylus wrote a famous trilogy about the house of Atreus following the Trojan War, which told of Orestes' revenge on Clytemnestra for the murder of his father. FTP each, name these three plays.
   Answer: Agamemnon, The Libation Bearers (The Choephoroe), The Eumenides (The Furies)

16. Identify this author, 25-10:
1) His lesser known works include the Virginians, as well as Barry Lyndon, which in 1975 was made into a movie by Stanley Kubrick.
2) This nineteenth century Englishman also wrote Vanity Fair.
   Answer: William Makepeace Thackeray

17. (25 points) This process is the first step of respiration and fermentation. Glucose is converted into either lactic acid or pyruvate, creating a small amount of ATP. For twenty five point, identify this process which precedes the Krebs cycle.
   Answer: Glycolysis

18. (30 points) For 10 points each, identify these works by Beethoven.
1. It was his only opera.
   Answer: Fidelio
2. It is the nickname of his 6th symphony
   Answer: Pastoral
3. It is the nickname of his 3rd symphony
   Answer: Eroica

19. For five points each, simplify the following powers of i, the square root of -1:
1) The fourth power
   Answer: 1
2) The 648th power
   Answer: 1
3) The 649th power
   Answer: i
4) The 55th power
   Answer: -i
5) The 107th power
   Answer: -i
6) The power of -2
   Answer: -1

20. (30 points) Only 5 men have won the Best Actor Oscar twice. Given the films for which they won, identify these men for 5 points each, and a bonus 5 for all correct.
High Noon, Sergeant York -   Answer: Gary Cooper
On the Waterfront, The Godfather -   Answer: Marlon Brando
Kramer vs. Kramer, Rain Man -   Answer: Dustin Hoffman
Boys' Town, Captains Courageous -   Answer: Spencer Tracy
Dr. Jekyll and Mr. Hyde, The Best Years of Our Lives -   Answer:
   Fredric March
   Answer: Best Actors