

Greenfield Tournament Bonus Round 9

1. (30 points) Answer these questions about the career of Otto von Bismarck, for 10 points each.
 1. Von Bismarck altered a telegraph message in a successful effort to provoke the Franco-Prussian War. By what name is this message known?
Answer: Ems Dispatch
 2. Von Bismarck's extremely pragmatic policy of advancing the cause of his nation regardless of the consequences is known, for 10 points, as what?
Answer: Realpolitik
 3. Von Bismarck struggled to assert government control over the Roman Catholic Church. FTP, what is this conflict between the church and state from 1871-1883 called?
Answer: kulturkampf

2. (30 points) Answer the following questions about fluids for 10 points each.
 1. What do physicists call seemingly random motion of particles suspended in a fluid caused by collisions with the molecules of the fluid in which they are suspended?
Answer: Brownian motion
 2. By what name do chemists know the crescent-shaped surface of a liquid column that is caused by the adhesion between the fluid and the material of the column?
Answer: meniscus
 3. What property of fluids, caused by cohesion, is defined as the ratio of shear stress to the rate of change of shear strain?
Answer: viscosity

3. (25 points) It is a 1927 novel relating the life story of two eminent French clerics, Father Latour and Fahter Vaillant who brave all adversities to attain their end of building a cathedral in the wilderness. For 15 points, identify this American novel.
Answer: Death Comes for the Archbishop
For an additional 10 points, what author wrote Death Comes for the Archbishop?
Answer: Willa Cather

4. (30 points) The Mekong River is one of the most important rivers of Southeast Asia. For 5 points each, name the 6 nations which it flows through or borders.
Answer: China, Burma, Laos, Thailand, Cambodia, Vietnam

5. This solid can be described as any part of another solid, such as a pyramid or cone, which lies between its base and a section parallel to the base. To help you visualize this, imagine the top of one of the great pyramids being lopped off, leaving a flat top-- what would be left is the solid we are talking about. For twenty- five points, give the mathematical term which describes such an object.
Answer: Frustrum

6. (30 points) For 10 points each, answer these questions about the United States Constitution.
 1. How many articles does it have?
Answer: 7
 2. Who future Secretary of the Treasury was the only man from New York to sign it?
Answer: Alexander Hamilton
 3. What kind of court order, guaranteed in Article I Section 9, requires that persons arrested must be brought to court to determine the cause for their detention.
Answer: (Writ of) Habeas Corpus

7. (30 points) This year a Pennsylvania Senator was killed in a plane crash forcing a short-term appointee to fill his seat.
First, for 10 points, identify the Senator who was killed in the plane crash.
Answer: John Heinz
Now for 10 more points, identify the appointee to his seat who just won another six years in the Senate.
Answer: Harris Wofford
For a final 10 points, identify the former Bush cabinet member who was badly defeated in the Pennsylvania election by Harris Wofford.
Answer: Dick Thornburgh

8. (25 points) These Egyptian deities were husband and wife and together were the parents of Horus. The husband was slain by his brother Set who scattered his parts all over Egypt. With the aid of Thoth, his sister-wife gathered his parts and restored him to life. 10 points for one, 25 for both, name this husband-wife pair from Egyptian mythology. Answer: Isis and Osiris

9. (30 points) For 10 points each, answer these questions about the Spanish-American War.

1. What famous naval battle took place among in the Philippine Islands?

Answer: Battle of Manila Bay

2. What commodore led the American fleet at Manila Bay?

Answer: George Dewey

3. In what year did the war take place?

Answer: 1898

10. (30 points) 25-15-5 Give the common last name.

1. Emmet was a U.S. clown best known for creating the character "Weary Willie".

2. Gene was an American actor and dancer best known for his role in "Singin' in the Rain".

3. Grace was the actress who starred in Dial M for Mudrer, Rear Window, and To Catch a Thief.

Answer: Kelly

11. (25 points) Identify the American authors of the following well- known short stories.

1. The Lottery Answer: Shirley Jackson

2. The Minister's Black Veil Answer: Nathaniel Hawthorne

3. Barn Burning Answer: William Faulkner

4. Bartleby the Scrivner Answer: Herman Meville

5. The Diamond as Big as the Ritz

Answer: F. Scott Fitzgerald

12. (30 points) For 10 points each, given a pair of states, name the one state which borders both of them.

1. Idaho and Nebraska

Answer: Wyoming

2. New Mexico and Missouri

Answer: Oklahoma

3. Montana and Iowa

Answer: South Dakota

13. (30 points) Identify the composers of the following pieces of American patriotic music. 5-10-15.

1. "Stars and Stripes Forever" (5 pts)

Answer: John Philip Sousa

2. "God Bless America" (10 pts)

Answer: Irving Berlin

3. "Over There" and "You're a Grand Old Flag" (15 pts)

Answer: George M. Cohan

14. (30 points) Name this President 30-20-10.

1. His Vice President was George Dallas.

2. The Treaty of Guadalupe-Hidalgo was signed during his term.

3. He accepted the 49th Parallel as the northern boundary of the US, ignoring his campaign slogan of "54°40' or Fight!"

Answer: James K. Polk

15. (30 points) Pencil and paper ready. You have 1 mole of calcium carbonate CaCO_3 .

First, for 10 points, rounding atomic weights to the nearest whole gram, how many grams does it weigh?

Answer: 100

Now for 20 points, given that the molecular weight of calcium carbonate is 100, if you dissolve 400 grams of calcium carbonate in in 1 liter of water, what is the normality of the solution?

Answer: normality is 2 (each 100 grams contains .5 gram equivalents for a total of 2 grams equivalents in 1 liter thus $N=2$)

16. For 10 points each, give the authors of the following English poetical works:

1) The Phoenix and the Turtle

Answer: William Shakespeare

2) Paradise Regained

Answer: John Milton

3) Macavity, the Mystery Cat

Answer: T. S. Eliot

17. For ten points each, tell whether each of the following three philosophers was a rationalist, and empiricist, a pragmatist, a utilitarian, or an existentialist:

1) John Locke

Answer: empiricist

2) Baruch Spinoza

Answer: rationalist

3) William James

Answer: pragmatist

18. Identify this psychologist from his books, 25-10:

1) Beyond Freedom and Dignity

2) Walden 2

Answer: B. F. Skinner

19. Identifier this author from works, 30-20-10:

1) Persuasion

2) Northanger Abbey

3) Pride and Prejudice

Answer: Jane Austen

20. Molecules of this class consist of hydrophobic heads and hydrophobic tails. This remarkable property uniquely suits them to the task of forming cell membranes. For twenty-five points, name this type of compound, bilayers of which divide the living cell from its environment.

Answer: Phospholipids