

1989 High School Tournament
Round Six

1. You probably know that 37 degrees equals 98.6 degrees when going from Celsius to Fahrenheit. 57.3 degrees is equal to something completely different, if you are talking about mathematics and not temperature. For 10 points--what unit, equal to 57.3 degrees is defined as the magnitude of an angle whose two sides cut off one half pi of the circumference of a unit circle?

Answer: Radian

2. He was clearly guilty of "bad speeches, bad judgment, and bad temper," but not of "high crimes and misdemeanors." Thus, on March 16, 1868 the U.S. Senate fell just one vote short of impeaching, for 10 points, which president?

Answer: Andrew Johnson

3. Dacca is the capital of Bangladesh, but this western African nation's capital is Dakar. For 10 points--name this nation which surrounds Gambia.

Answer: Senegal

4. She was ninety years old when the most famous episode of her life occurred. A resident of Frederick, Maryland, she defiantly waved the Stars and Stripes as Stonewall Jackson's Confederate army marched through town. For 10 points--name this heroine immortalized in a poem by John Greenleaf Whittier.

Answer: Barbara Frietchie

5. Salt Lake City is the center of the Mormon religion. FTP--in what east coast city would you find the Mother Church of Christian Science?

Answer: Boston

6. He studied the writings of Sigmund Freud and subsequently declared an ambition to "systemize confusion." You may not recognize him by his flowing capes, handlebar mustache, and popping eyes, but it's a good bet his paintings are familiar to you. Time finally ran out for him on January 23, 1989. For 10 points--name this Spaniard whose most famous work is nicknamed "Soft Watches."

Answer: Salvador Dali

7. While studying cholesterol formation in chickens, Danish chemist Carl Dam found that for proper blood clotting to take place, a certain substance is necessary in the diet. For 10 points--what letter designates this blood-clotting vitamin?

Answer: Vitamin K

8. He was an illiterate silversmith and mechanic in 1809 when he first grew interested in the mysterious communicative power of books. Although he never learned to read or speak English, he himself taught thousands of people how to read and write. In 1821 he succeeded in inventing symbols for all 86 syllables of the Cherokee tongue. FTP--name this linguist.

Answer: Sequoyah

9. The U.S. was largely created by events in the years 1776, 1787, and 1789. Another country is associated with the years 1772, 1793, and 1795. For 10 points--what European nation was "de-created" in the partitions of those years?

Answer: Poland

10. You would find the extraterrestrial named Alf on NBC Monday nights. But, according to Samuel Taylor Coleridge, Alph was the name of a sacred river which flowed through the land of Xanadu. For 10 points--in which of his poems?

Answer: Kubla Khan

11. American critics hated his work, but he was a cult hero to European writers from Charles Baudelaire to George Bernard Shaw. Some of his lesser known works include *The Narrative of Arthur Gordon Pym* and *Manuscript Found in a Bottle*. A bottle is exactly where he tried to find himself. For 10 points--name this alcoholic writer of the macabre.

Answer: Edgar Allan Poe

12. It was rendered obsolete in 1851 by the wet collodion process, just twelve years after the French government bought the rights to it and announced so to the world. It had two drawbacks: only one copy could be made, and even bright outdoor shots required an exposure of 5-10 minutes. FTP--name this finely detailed photographic process superseded by the calotype.

Answer: Daguerreotype

13. This compound was discovered by Michael Faraday in 1825, but its structure puzzled scientist for forty years, until 1865, when August Kekulé proposed a hexagonal formula with alternate double bonds. FTP--name this aromatic compound and proven carcinogen.

Answer: Benzene

14. "We're coming, Grover Cleveland, 500,000,
We're marching on to Washington to right the nation's wrong."

For 10 points--what "army" marched on Washington to the tune of this song in 1894 but saw their leader arrested for walking on the grass?

Answer: Coxey's Army

15. It was an extensive peninsula off the coast of California discovered in 1703. Its flies were as big as larks; its rats as big as dogs; and its corn grows forty feet tall. Its people were as tall as church steeples. For 10 points--what name did Jonathan Swift give to this marvelous land, the counterpart of Lilliput?

Answer: Brobdingnag

16. He wrote about the vanishing wilderness and encroaching civilization, though the closest he ever got to that wilderness was Scarsdale, New York. In his own day he was considered an insufferable snob, a reactionary, a grouch, and a trouble-maker fond of defending slavery. Mark Twain considered him a terrible writer, despite such successes as *The Spy*, *The Deerslayer*, and *The Last of the Mohicans*. For 10 points--name this author.

Answer: James Fenimore Cooper

17. According to the Koran, God made this animal out of the west wind and set it above all other animals--destined to fly without wings. For 10 points--what is this most prized of animals to the Arabs?

Answer: Horse

18. They are divided into two main groups--the ornithischia or "bird pelvises" and the saurischia or "lizard pelvises." They included the two-legged carnivorous theropods and the four-legged herbivorous sauropods. Specific types were named glyptodon, protoceratops, and allosaurus. For 10 points--name this group of reptiles.

Answer: Dinosaurs

19. In 1928 he wrote: "Starlight is falling on every square mile of the Earth's surface, and the best we can do is gather up and concentrate the rays that strike an area 100 inches in diameter." He then persuaded a Rockefeller charity to donate six million dollars to Cal Tech for the construction of a 200-inch telescope. In 1948 the telescope was named for him. For 10 points--name him or his instrument atop Mt. Palomar.

Answer: Hale (George Ellery Hale) Telescope

20. He fought against the Moors, but King Alfonso VI distrusted him and had him banished in 1081. He then went over to the Muslim ruler of Sargosa and fought against the Christians. In 1094, he conquered Valencia and ruled there until his death. For 10 points--who was this Spanish soldier and hero of many literary works?

Answer: El Cid or Cid Campeador

21. She mysteriously disappeared in the mid-1920's--a bout of amnesia she claimed. Of her writing, she said: "It's murder. People think writing is easy for me, but it isn't." It often was murder she wrote about. For 10 points--name this English Dame whose 85 novels have sold over 350 million copies.

Answer: Dame Agatha Christie

1. (30 points) In 1876 the U.S. House of Representatives passed a most extraordinary resolution, warning the sitting president of the United States against seeking a third term in office. For 10 points each:
 - a. name the president Answer: U.S. Grant
 - b. name the Ohio politician whom the Republicans nominated in Grant's place. Answer: Rutherford B. Hayes
 - c. name the New York Democrat whom Hayes defeated in this closest election in history. Answer: Samuel J. Tilden

2. (30 points) Everyone knows the quadratic formula (Hand out card). For 10 points each:
 - a. what term identifies the $b^2 - 4ac$ part of the formula?
Answer: Discriminant
 - b. what is the general name for the sign above the discriminant, indicating the square root operation?
Answer: Radical
 - c. Finally, if the discriminant is less than zero, what does that tell you about the roots of the relevant equation?
Answer: It has two imaginary roots or complex roots (accept "it has no real roots")

3. (30 points) Some novelists have solved the problem of titling their works by using numbers. For 10 points each:
 - a. Who, in 1948, wrote 1984? Answer: George Orwell
 - b. Who, in 1932, wrote 1919? Answer: John Dos Passos
 - c. What Frenchman, in 1879, wrote 93? Answer: Victor Hugo

4. (30 points) George Bush was associated with the phrase "kindler, gentler nation." FTP each--which of his predecessors:
 - a. ruled during the so-called Era of Good Feeling?
Answer: James Monroe
 - b. had so many corrupt underlings that his two terms were called the Era of Good Stealings?
Answer: U.S. Grant
 - c. marked his inauguration with a "return to normalcy."
Answer: Warren Harding

5. (30 points) The three most important factors in real estate are "location, location, and location." These territories would certainly agree. Each was involved in a tug-of-war between neighboring nations. For 10 points each--name the pair of countries who have historically disputed the following territories:
 - a. Schleswig-Holstein Answer: Germany and Denmark
 - b. Alsace-Lorraine Answer: Germany and France
 - c. The Sudetenland Answer: Germany and Czechoslovakia

6. (25 points) Fleance and Malcolm both lost fathers in one of Shakespeare's bloodier plays.
 - a. For 5 points--name the play. Answer: Macbeth
 - b. For 10 points--name Fleance's father Answer: Banquo
 - c. For 10 points--name Malcolm's father Answer: Duncan

7. (30 points) The U.S. Tomb of the Unknown Soldiers is located in Arlington National Cemetery. For 15 points each:
 - a. In what building is Britain's tomb of the unknown soldier? Answer: Westminster Abbey
 - b. Under what monument is France's tomb of the unknown soldier? Answer: Arc de Triomphe or Arch of Triumph

8. (20 points) Some people have computers for brains. For 5 points each--identify these other semi-robotic people:
 - a. What 16th century astronomer used a silver nose after his real one was cut off in a sword fight?
Answer: Tycho Brahe
 - b. What Dutch colonial administrator had a peg-leg made of silver?
Answer: Peter Stuyvesant
 - c. What American Nobel laureate in literature had a kneecap made of silver, his own having been shot away during World War I while he served as an ambulance driver on the western front?
Answer: Ernest Hemingway
 - d. Finally, what daredevil has a total of fourteen metal plates in his body from various unsuccessful stunts?
Answer: Evel Knievel

9. (20 points) Laryngitis is inflammation of the larynx. For 5 points each--which organ of the human body is inflamed in:
 - a. encephalitis Answer: Brain
 - b. hepatitis Answer: Liver
 - c. nephritis Answer: Kidney
 - d. ileitis Answer: Small Intestine (do not accept ileum)

10. (20 points) Thomas Nast gave the Republicans an elephant and the Democrats a donkey. For 10 points each:

a. what animal symbol did he create for Tammany Hall?

Answer: Tiger

b. what was the animal symbol for the Progressive Party in the 1912 presidential election?

Answer: Bull Moose

11. (30 points) Richard Strauss and Johann Strauss are neither related, nor contemporaries. They indirectly collaborated on the music in a landmark 1968 movie, though. For 10 points each:

a. supply the name, first, for this composition by Richard Strauss. (PLAY)

Answer: Also Sprach Zarathustra

b. now, this Johann Strauss work. (PLAY)

Answer: The Blue Danube Waltz

c. give me the full title of the movie in which both appeared.

Answer: 2001: A Space Odyssey

12. (30 points) Twentieth-century physics would be helpless to explain many phenomena without the use of quantum interpretations. For 10 points each--identify these terms central to quantum physics:

a. Designated by the letter h, it is the fundamental quantity of quantum physics.

Answer: Planck's Constant

b. This law states that only one particle can occupy a given quantum state at a time.

Answer: Pauli Exclusion Principle

c. This restriction states that it is impossible to determine both the position and momentum of an object simultaneously.

Answer: Heisenberg Uncertainty Principle

13. (30 points) Four streets famed in American music are: Bourbon Street, Beale Street, Catfish Row, and Tin Pan Alley. For 10 points each--which of the four:

a. Contained the noted Storyville district?

Answer: Bourbon Street (New Orleans)

b. Was made famous by DuBose Heyward?

Answer: Catfish Row (Charleston, SC)

c. Is the only one north of the Mason-Dixon Line?

Answer: Tin Pan Alley (New York City)

14. (20 points) I will give you the official names of three influential Christian "societies." For 5 points each, 20 for all three, give me the popular name for each:

a. Religious Society of Friends

Answer: Quakers

b. Society of Jesus

Answer: Jesuits

c. United Society of Believers in Christ's Second Appearing

Answer: Shakers

15. (20 points) The mineral beryl is found in hexagonal crystals in granite deposits. For 10 points each--what specific name is applied to:

a. deep-green beryl with some chromium?

Answer: Emerald

b. pale-blue beryl?

Answer: Aquamarine

16. (20 points) The French and Germans have not always gotten along well together, but three nations have gotten along reasonably well with both French and German as official languages. For 5 points apiece, and an additional 5 points for all three, name these European nations.

Answer: Belgium, Luxembourg, Switzerland

17. (20 points) Burnt Norton, East Coker, The Dry Salvages, and Little Gidding. For 10 points each:

a. What name is given to this suite of meditative poems?

Answer: The Four Quartets

b. What poet wrote The Four Quartets?

Answer: T.S. Eliot

18. (30 points) The Reagan administration and Congress fought continually about the War Powers Act. For 10 points each:

a. This act was passed over which president's veto?

Answer: Richard Nixon

b. The War Powers Act gives the president how many days to get Congressional authorization for troop deployment?

Answer: Sixty Days

c. The War Powers Act has been invoked only once, in 1983. In what country were the U.S. forces involved?

Answer: Lebanon

19. (20 points) An amino acid contains, by definition, an amine group on one end and a carboxylic (car-bock-SILL-ik) acid group on the other. For 10 points each:

a. What's the chemical formula of an amine group?

Answer: NH₂

b. What's the formula for a carboxylic acid group?

Answer: COOH