

G.A.T.A. 1993 State Tournament - Round 6

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T1. Chief Justice John Marshall ruled that the Judiciary Act of 1789 was "repugnant to the Constituion" - thus establishing the principle of judicial review. For ten points, name the 1803 case in which he made this famous decision.

Answer: Marbury v. Madison

B1. Give the years of the following events in U.S. history. 5 pts. each.

1. Passage of Homestead Act

Answer: 1862

2. Monroe doctrine issued

Answer: 1823

3. Haymarket Square Riot

Answer: 1886

4. Seneca Falls Convention

Answer: 1848

T2. This journalist and author spent time on the Italian front in World War I and used this experience in writing one of his novels. For 10 points, identify this author whose works include "The Killers", To Have and Have Not, and Death in the Afternoon.

Answer: Ernest Hemingway

B2. For 5 points each, identify the following Poe short stories from brief descriptions.

1. Prince Prospero and his court hide from a plague.

Answer: The Masque of the Red Death

2. Montessor kills Fortunado

Answer: The Cask of Amontillado

3. A victim of a nervous disease is overcome by homicidal mania and murders an innocent old man.

Answer: The Tell-Tale Heart

4. Roderick and his twin sister Madeline are the only surviving members of their family.

Answer: Fall of the House of Usher

T3. Pencil and paper ready. For 10 points, what is the derivative with respect to of the following: quantity 1 plus x squared. $(1 + x)^2$

Answer: $2x + 2$

B3. Differentiate the following with respect to x for 10 points each.

1. $(x+1)$ over $(x+2)$ [x plus 1 over x plus 2]

Answer: $1/(x+2)^2$ [one over x plus 2 squared or x plus 2 to the negative 2]

2. $3x\sin(x)$ [3 x sin x]

Answer: $3 \sin(x) + 3x \cos(x)$ [order not important]

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T4. It lies to the north of the Elburz Mountains of Iran and it receives the water of the Volga, Terek, Kura, Emba, and Ural rivers. For 10 points, identify this body of water on which the port of Baku can be found - the largest lake in the world.

Answer: Caspian Sea

B4. Identify the state capitals located on the following rivers for 5 points each.

1. Charles River

Answer: Boston

2. South Platte River

Answer: Denver

3. Severn River

Answer: Annapolis

4. Hudson River

Answer: Albany

T5. It is the native tongue of about six million people and a second language to many others in Southern Africa. It is the source of many words that have worked their way into English such as lager, trek, veld, boer, and apartheid. For 10 points, identify this language of South Africa related to Dutch.

Answer: Afrikaans

B5. Given the definition of a word that begins with the letters "ext- ", identify the word. 5 pts. each.

1. currently or actually existing

Answer: extant

2. to lessen or try to make less serious, mitigate

Answer: extenuate

3. to obtain something from a person by force or intimidation

Answer: extort or extract

4. to infer from values within an already observed interval

Answer: extrapolate

T6. They are members of the family Compositae and are perennials of Old World origin. Though both male and female structures are present in the flower head, seeds develop without pollination or fertilization. For 10 points, what are these yellow herbs, often thought of as weeds, despite the fact that wine can be made from their flowers?

Answer: dandelions

B6. Answer the following questions about teeth for 5 points each.

1. What is the hard yellow substance that makes up most of the structure of teeth?

Answer: dentin or dentine

2. What is the hard white substance that covers the dentin?

Answer: enamel

3. What botanical sounding name is given to the milk or baby teeth in man?

Answer: deciduous

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4. What name is given to the sharp, chisel-shaped teeth found at the front of the mouth?

Answer: incisors

G.A.T.A. 1993 State Tournament - Round 6

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T7. To his popular music he brought the craftsmanship of a trained musician. To his serious music, he brought elements from ragtime, jazz, and blues. For 10 points, identify this man whose best known works include "An American in Paris" and "Rhapsody in Blue".

Answer: George Gershwin

B7. Identify the following jazz composers from their works 10 pts. each.

1. Ornithology Answer: Charlie "Bird" Parker
2. Giant Steps Answer: John Coltrane

T8. Brought to America in 1761, her works include the collection Poems on Various Religious and Moral Subjects. For ten points, name this slave turned poet, among the earliest African American writers in the English Colonies.

Answer: Phyllis Wheatley

B8. Answer these questions about early American literature for 10 points each.

1. Published in London in 1650, this collection of poems consists chiefly of rhymed discourses and chronicles using a form the author called "quarternions" or groups of four. What is it?

Answer: The Tenth Muse Lately Sprung up in America

2. For an additional 10 points, who wrote "The Tenth Muse Lately Sprung Up in America"?

Answer: Anne Bradstreet

T9. The outcry against the rejection of this work and other experimental works in 1863 led to the formation of the Salon des Refuses. It is among the most famous impressionist works and features a nude woman seated with two fully clothed men. For 10 points, what is this work by Edouard Manet?

Answer: Luncheon on the Grass or Dejeuner sur l'Herbe

B9. Identify the painters of the following. 5 pts. each.

1. Venus of Urbino, Christ Crowned with Thorns

Answer: Titian

2. The Naked Maja, Donna Isabelle, The Family of Charles IV

Answer: Francisco Goya

3. The Burial of Count Orgaz, St Martin and the Beggar, View of Toledo

Answer: El Greco

4. Syndics of the Drapers Guild

Answer: Rembrandt

G.A.T.A. 1993 State Tournament - Round 6

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T10. The character Jaques speaks of the seven ages of man in this play, which is set in the forest of Arden. For ten points, name this Shakespearean comedy.

Answer: As You Like It

B10. Answer the following questions about Dickens' Oliver Twist. 5 pts. each.

1. What is its subtitle?

Answer: the parish boy's progress

2. What character accidentally hangs himself?

Answer: Bill Sikes

3. Who is the leader of the den of young pickpockets?

Answer: Fagin

4. What is the real name of the character known as the Artful Dodger?

Answer: Jack Dawkins

T11. The first was discovered in 1967 by radio astronomers Jocelyn Bell Burnell and Anthony Hewish in Cambridge, England. About 400 had been discovered by the mid-1980's. For 10 points, what are these older stars that emit regular pulses of electromagnetic radiation.

Answer: pulsars [not neutron stars, neutron stars do not pulse regularly]

B11. Answer the following questions about cave formations.

1. For 5 points, what name is given to spikes hanging down from a cave ceiling resembling icicles?

Answer: stalactites

2. For 5 more points, what metal saturates the water that forms stalactites?

Answer: calcium

3. For a final 10 points, what gas, dissolved in the water, aids in the formation of the final compound of which stalactites are composed?

Answer: carbon dioxide (CO₂)

T12. Passed in 1890, it allowed the federal government to sue Northern Securities and Standard Oil. For ten points, name this act under the provisions of which many monopolies were made illegal.

Answer: Sherman Anti-Trust Act

B12. Identify the cities in which the following modern peace or treaty talks were held.

1. SALT I talks

Answer: Helsinki, Finland

2. What Korean city was the site of peace talks from 1951 to 1953?

Answer: Panmunjon

G.A.T.A. 1993 State Tournament - Round 6

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T13. One of the founders of statistical thermodynamics, he is better known for his work in electromagnetic theory. For ten points, name this Scottish physicist whose four equations predicted the existence of electromagnetic waves.

Answer: James Clerk Maxwell

B13. For 10 points each, whose laws are defined as the following. 1. The force between two point charges is proportional to the value of the charges divided by the distance between them squared.

Answer: Coulomb's Law

2. The index of refraction of a substance is equal to the sine of the angle of incidence over the sine of the angle of refraction

Answer: Snell's law

T14. Etymologically, it is a condition in which a patient suddenly leaves his previous activity and begins to wander. For 10 points, identify this psychological condition which shares its name with a musical form.

Answer: fugue

B14. For 10 points each, identify the authors of the following works in the social sciences.

1. Le Suicide

Answer: Emil Dirkheim

2. The Language and Thought of the Child

Answer: Jean Piaget

T15. In 1808 he published A New System of Chemical Philosophy. A practical application for his law is determining the mixture of gases to use for astronauts and divers. For 10 points, identify this English chemist who stated that the pressure exerted by a gaseous mixture is equal to the sum of the pressures exerted by the individual gases.

Answer: John Dalton

B15. Identify the following elements from their uses and atomic numbers for 5 points each.

1. batteries, control rods for nuclear reactors, number 48

Answer: cadmium

2. plating, stainless steel, number 24

Answer: chromium

3. lamps, switches, barometers, number 80

Answer: mercury

4. combustion chambers for rockets and jets, number 22

Answer: titanium

G.A.T.A. 1993 State Tournament - Round 6

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T16. It was sung for the first time at a performance of Bryant's Minstrels at Mechanics Hall, New York City in 1859. For 10 points, identify this immensely popular song composed by Daniel Decatur Emmett.

Answer: Dixie

B16. For 5 points each identify the 20th century English composer of the following.

1. Pomp and Circumstance

Answer: Edward Elgar

2. Billy Budd

Answer: Benjamin Britten

3. Sinfonia Antarctica

Answer: Ralph Vaughn Williams

4. Evita

Answer: Andrew Lloyd Webber

T17. It is a chronic disease of the central nervous system, characterized by the degeneration and loss of myelin. Patients develop weakness or paralysis, incoordination, and impaired sensation. For 10 points, what is this disease?

Answer: multiple sclerosis [prompt for more information on "MS"]

B17. Identify the following terms from cell biology for 10 points each.

1. They are small particles found in the cytoplasm of living cells, are comprised of RNA and protein, and are involved in protein synthesis.

Answer: ribosomes

2. It is one of two small granules found just outside the nucleus in most plant and animal cells and divides before mitosis. The two pairs then move to opposite poles of the mitotic spindle.

Answer: centriole(s)

T18. In Demian, he describes a rebellious young man's coming-of-age. In Siddhartha, he fictionalizes the life of the Buddha. For ten points, name this author of Steppenwolf.

Answer: Hermann Hesse

B18. Identify the Germans who wrote the following works. 5 pts. each.

1. The Sorrows of Young Werther

Answer: Johann Wolfgang von Goethe

2. Ode to Joy

Answer: Friedrich Schiller

3. The Magic Mountain

Answer: Thomas Mann

4. The Tin Drum

Answer: Gunter Grass

T19. Pencil and paper ready. Solve the following pair of equations simultaneously: $x - y = 3$ (x minus y equals three); $x + 7y = 59$ (x plus seven y equals fifty-nine).

Answer: $x = 10, y = 7$

B19. For 10 points each, perform the following operations involving complex numbers.

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1. What is the absolute value of $2 + 4i$?

Answer: square root of 20 or 2 times square root of 5

2. What is quantity $2 + 4i$ times $3i$?

Answer: -12 plus $6i$

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T20. First reached in 1897 by a Swiss mountain climber, its summit is 22,831 feet above sea level. For 10 points, name this highest peak in the western hemisphere which is located in west central Argentina.

Answer: Aconcagua

B20. In the upper northeast corner of South America, lie three of the tiniest, least noticeable nations in South America.

1. For 5 points each, name these three nations located north of Brazil and east of Venezuela.

Answer: Guyana, Surinam, French Guiana

2. For an additional 5 points, name the island nation located just off the coast of Venezuela with its capital at Port-of-Spain.

Answer: Trinidad and Tobago

T21. Born in 1707, he published over 180 works during his lifetime. Among them were Flora Lapponica, Systema Naturae and Species Plantarum. For 10 points, identify this man considered the father of modern botany.

Answer: Carolus Linnaeus

T22. He was born the day after the double murder of the country gentleman named Haredale and his steward. He is a half-wit and the title character of an 1841 novel revolving around the Gordon riots of 1780. For 10 points, identify this Dickens character.

Answer: Barnaby Rudge