

## **G.A.T.A. 1993 State Tournament - Round 10**

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T1. France faced the threat of war with Great Britain and didn't want to chance American aggression taking from them something for which they could gain money, so the United States agreed to pay \$15 million in exchange for land between the Mississippi River and the Rocky Mountains. For 10 points, what was this 1803 event?

Answer: Louisiana Purchase

B1. Identify the post held by the following men in the cabinet of Abraham Lincoln for 5 points each.

1. Simon Cameron

Answer: Secretary of War

2. Edwin Stanton

Answer: Secretary of War

3. Salmon P. Chase

Answer: Secretary of the Treasury

4. William Seward

Answer: Secretary of State

T2. This nation celebrates its independence from Britain on July 6th. It shares borders with Tanzania, Zambia, and Mozambique. For 10 points, name this nation centered in the valley along the west side of Lake Nyasa which has its capital at Lilongwe.

Answer: Malawi

B2. Give the capitals of the following nations, for 5 pts each.

1. Laos

Answer: Vientiane

2. Liechtenstein

Answer: Vaduz

3. Liberia

Answer: Monrovia

4. Lithuania

Answer: Vilnius

T3. He swept the Eastern Mediterranean clear of pirates and assumed control of southwest Asia after defeating Mithridates in Pontus in 66 BC. He seized Palestine and Syria and secured territory as far as the Caspian and the Euphrates. For ten points, who is this general and Triumvir who was defeated in 48 BC at Pharsalus?

Answer: Pompey

B3. Identify the southeast Asian nations in which the following noblemen have held power in the 20th century, for 10 pts each.

1. Prince Sihanouk

Answer: Cambodia

2. Bao Dai

Answer: Vietnam

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T4. Pencil and paper ready. You have an isosceles triangle, and one of the base angles measures 30 degrees. For 10 points, what is the measure of the non-identical angle?

Answer: 120 degrees

B4. Give the following trigonometric values for 5 pts each.

1.  $\sin(30)$  Answer: 1/2

2.  $\tan(30)$

Answer: square root of three over three or 1 over square root of three

3. hyperbolic sine (0)

Answer: 0

4.  $\text{Arcsin}(\text{square root of two over two})$

Answer: 45degrees or pi over 4 radians

T5. At least two doctors appear in the titles of his works. At his death, he left unfinished the novel Doctor Grimshawe's Secret. Earlier, he wrote the story "Doctor Heidegger's Experiment" for the Salem Gazette. For 10 points, identify this author who later included Doctor Heidegger in his short story collection "Twice Told Tales".

Answer: Nathaniel Hawthorne

B5. Answer the following questions about the play "The Iceman Cometh".

1. For 10 points, who wrote it?

Answer: Eugene O'Neill

2. For an additional 10 points, in what cafe is the play set?

Answer: End of the Line Cafe (if given "Harry Hope's", ask for more)

T6. This special Senate procedure once required a 2/3 vote of the entire Senate, but today only needs 3/5 of the entire Senate. After such a vote is taken, the discussion of the specific issue at hand will end after 30 more hours of discussion and a final vote will be taken at that time. For 10 points, name this procedure, introduced in 1917, which is the only defense the Senate has against filibustering.

Answer: cloture vote

B6. For 5 points each, give the following terms from government.

1. a government official appointed to receive and investigate complaints made by individuals against abuses of public officials.

Answer: ombudsman

2. A legislative body consisting of two chambers

Answer: bicameral

3. a term coined for the arrangement of legislative districts to favor the party in power

Answer: gerrymander (or, gerrymandering)

4. a government in which a small group exercises control

Answer: oligarchy

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T7. Often covered by myelin, it is that portion of a neuron that normally carries impulses away from the cell. For 10 points, what is this elongated segment of a nerve cell?

Answer: axon

B7. Give the class of arthropoda that includes the following creatures for 10 points each.

1. centipedes, millipedes

Answer: myriapoda or myriapods

2. flies, butterflies, ticks

Answer: insecta or insects

T8. He briefly lived in Majorca to relieve his tuberculosis and the 1848 Revolution drove him to Britain. He returned to Paris the following year and died. He worked on waltzes, nocturnes, preludes, mazurkas, and polonaises. Who is this composer and pianist, known for his Minute Waltz?

Answer: Frederic Chopin

B8. Identify the following musical terms for 10 points each.

1. Ranging from about 98 to 125 quarter notes per minute, it is a slow tempo, slower than andante, but faster than largo.

Answer: adagio

2. Ranging from 182 to 208 quarter notes per minute, it is a very fast tempo, faster than allegro.

Answer: presto

T9. Blood plasma, mayonnaise, stained glass, and milk are examples of a type of mixture, intermediate between a solution and a suspension, which does not settle readily. They can be classified as gels, emulsions, solids, foam, mist, or smoke, For 10 points what name describes these mixtures?

Answer: colloid

B9. Answer the following questions about calcium hydroxide for 10 points each.

1. What is the formula of calcium hydroxide?

Answer: Ca(OH)<sub>2</sub>

2. Given these atomic weights: Calcium - 40, Oxygen - 16, Hydrogen - 1, what is the mass of 1 equivalent of calcium hydroxide?

Answer: 37 grams

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T10. This book published in 1916 is a collection of fifteen short stories with an unusual pattern--the stories are all about different characters who progress in age throughout the book. The first three stories--"The Sisters," "An Encounter," and "Araby"--are about childhood while the final story, "The Dead", is about adults. For 10 points, name this book by James Joyce.

Answer: Dubliners

B10. Identify the killers of the following Shakespeare characters, for 5 pts each.

1. Polonius

Answer: Hamlet

2. Roderigo

Answer: Iago

3. Duncan

Answer: Macbeth

4. Regan

Answer: Goneril

T11. Pencil and paper ready. For a quick 10 points, what is the derivative of with respect to  $x$  of  $1$  over  $x$ ?

Answer:  $-\frac{1}{x^2}$  or  $-x^{-2}$  (minus 1 over  $x$  squared or minus  $x$  to the minus 2)

B11. Given the binary number [Reader: slowly] 10101101.

1. For 10 points, what is that number in base 10?

Answer: 173

2. For 10 points, what is that number in base 16 or hexadecimal?

Answer: AD

T12. This term comes from a Greek compound word for "common people" and "leader". It was applied to unofficial leaders of the Athenians during the 4th century B.C. For 10 points, what is this term that today is applied to a leader who makes use of popular prejudices and false claims in order to gain power?

Answer: demagogue

B12. Identify the following foreign words that have become part of English for 10 points each. Both begin with the letters "sam-".

1. This word comes from the Russian for "self-boil" and is an urn with a spigot at its base used to boil water for tea.

Answer: samovar

2. This is a Brazilian dance of African origin.

Answer: samba

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T13. They are geometric points of infinite space-time curvature and infinite density; scientists hypothesize that the universe was contained within one at the beginning of time and may return to one at the end of time. For 10 points, identify these points at which the laws of science break down, that exist at the center of black holes.

Answer: singularities

B13. Give the physical constants that have the following similar values for 10 pts each.

1. 6.63 times 10 to the negative 34th joule seconds

Answer: Planck's constant

2. 6.67 times 10 to the minus 11th newton meters-squared per kilogram squared

Answer: G or universal gravitational constant or gravitational constant

T14. He attended the Imperial Academy of Fine Arts in St. Petersburg while his father built the Moscow-St. Petersburg railroad. He returned to the U.S. and began painting as a career, giving his paintings titles with musical terms. For 10 points, identify this artist whose Nocturnes and Arrangements are his best known works today.

Answer: James A.M. Whistler

B14. Identify the 20th century American artists who produced the following works for 10 points each.

1. "Christina's World

Answer: Andrew Wyeth

2. "Deer's Skull with Padernale"

Answer: Georgia O'Keefe

T15. The Luddites were followers of the mythical Ned Ludd, and the Argonauts followed the mythical Jason. But, for 10 points, what religious figure did the French Huguenots follow?

Answer: John Calvin

B15. For 5 points each, identify the man who ruled Rome as Emperor during the following time periods.

1. 161-180 A.D.

Answer: Marcus Aurelius

2. 306-337 A.D.

Answer: Constantine I the Great

3. 284-305 A.D.

Answer: Diocletian

4. 37-41 A.D.

Answer: Caligula

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T16. Any star heavier than 1.4 solar masses will become either a neutron star or a black hole. For 10 points, what Indian astronomer's name is applied to this limit that determines the ultimate future of a star?

Answer: Chandrasekhar limit

B16. Identify the following terms from astronomy for 10 points each.

1. An eclipse is a special type of this event. It is a blockage of radiation from a celestial body when another body moves between it and the observer.

Answer: occultation

2. This term is the ratio of the amount of light reflected by a body to the amount of light incident upon it.

Answer: albedo

T17. At the beginning of the novel, the title character is drunk, but his final line, "We shall yet make these United States a moral nation," is spoken from a pulpit. Throughout the work, author Sinclair Lewis scathingly portrays the hypocrisy of this sometime preacher and full-time philanderer. For 10 points, identify this 1927 work.

Answer: Elmer Gantry

B17. For 10 points each, identify the following imagist poets.

1. From 1915 to 1917, this author of Sword Blades and Poppy Seeds led the movement.

Answer: Amy Lowell

2. This poet was awarded the first Bollingen Award for American Poetry while he was a resident of St. Elizabeth's Hospital for the Criminally Insane.

Answer: Ezra Pound

T18. This English scientist was important to both physics and biology. He found the force law governing elastic springs, and coined the term for cells. For ten points, name him.

Answer: Robert Hooke

B18. For 10 points each, give the common name of the following diseases.

1. varicella, caused by herpes zoster

Answer: chicken pox

2. rubella

Answer: German measles

T19. From the national epic of his native land, he drew inspiration for such orchestral works as the Kullervo Symphony, the Four Legends, and The Swan of Tuonela. For 10 points, identify this composer best known for his work, "Finlandia".

Answer: Jean Sibelius

B19. 1813 was a good year, a very good year, for composers. Identify the following composers born in 1813 from their lesser known works for 10 points each.

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1. Rienzi and Die Feen

Answer: Richard Wagner

2. Il Trovatore and The Sicilian Vespers    Answer: Guiseppe Verdi

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T20. His 3 pets were Elmer the Moose, Nero the Bear, and Jacko the Reversible Dog. He worked hard, and with the help of his bookkeeper Johnny Inkslinger, he was able to support his wife Minnie and their children, Jean and Teenie. For 10 points, name this fictional character who supposedly created Puget Sound and the Great Lakes.

Answer: Paul Bunyan

B20. Give the collective name for the following mythological groups. 5 pts each.

1. Medusa, Stheno, Euryale

Answer: Gorgons

2. Urd, Skuld, Verdandi

Answer: Norns

3. Clotho, Lachesis, Atropos

Answer: Fates or Moirae

4. Alecto, Megaera, Tisiphone

Answer: Furies or Eumenides or Erinyes

T21. From 1801 to 1809, she served Thomas Jefferson as official hostess of the White House. She continued in that capacity after her husband's election in 1808. For 10 points, identify this first lady.

Answer: Dolly Payne Madison

T22. He published Gallery of Illustrious Americans in 1850. He had earlier learned the daguerrotype process from Sameul Morse and in 1844 opened his own photographic studio in New York. For 10 points, name this man who is largely responsible for the preservation of the civil war in pictures.

Answer: Matthew Brady