G.A.T.A. 1993 State Tournament - Round 15
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T1. President Clinton has recently put several women's names in the headlines as he selected them for his cabinet. In 1933, Franklin Roosevelt put one woman's name in the headlines as the first ever to hold a cabinet level position. For 10 points, identify this Secretary of Labor.
    Answer: Frances <u>Perkins</u>

B1. Identify these leading figures of the American Revolution from brief descriptions. 5 pts. each.
1. This distinguished cavalry commander was the father of Robert E. Lee
    Answer: Henry "<u>Lighthorse Harry</u>" <u>Lee</u>
2. This Boston merchant was president of the Continental Congress from 1775 to 1777.
    Answer: John <u>Hancock</u>
3. This man organized the protests against the Stamp Act and was a leading instigator of the Boston Tea Party. He was also a founding member of the Sons of Liberty and the most influential member of the lower House of the Massachusetts legislature from 1765 to 1774.
    Answer: <u>Samuel Adams</u>
4. This Virginian gave the speech which ended "Caesar had his Brutus, Charles I had his Cromwell, and George III may profit from their example".
    Answer: Patrick <u>Henry</u>

T2. Born in Belgium around 1580, he was one of the first great painters of the 17th century Dutch school, he is best known for his excellent portraits. In the 1620's and 30's, his career was at its height. For 10 points, name this painter of The Laughing Cavalier.
    Answer: Frans <u>Hals</u>

B2. Identify the following art terms for 10 points each.
1. From the Italian for "bright and dark" it refers to the technique of painting three-dimensional figures and space through the distribution of light and shadow.
    Answer: <u>chiaroscuro</u>
2. From the Italian for "smoke", it is used to describe the blending of tones or colors so subtly they melt into one another without perceptible transitions.
    Answer: <u>sfumato</u>

T3. Pencil and paper ready. For 10 points answer the following arithmetic problem in Roman numerals.   XVI times IV.
    Answer: <u>LXIV</u>

B3. For 10 points each, give the derivatives of the following functions.
1. sine squared of x squared [$\sin^2(x^2)$]
    Answer: 4x sin x squared cosine x squared [$4x\sin(x^2)\cos(x^2)$]
2. quantity x plus 1 to the 4th [$(x + 1)^4$]
    Answer: 4 times quantity x plus 1 cubed [$4(x+1)^3$]

T4.This region is located in the western Pacific north of the equator. Its inhabitants are of Australoid and Polynesian stock and speak Malayo-Polynesian languages. For ten points identify division of Oceania which includes the Caroline, Gilbert, Northern Mariana and Marshall Islands.
    Answer: <u>Micronesia</u>

B4. Identify these islands that on a list of the 10 largest in the world.
1. For 5 points, name any one of the three islands in the list belonging to Canada.
    Answer: <u>Ellesmere or Victoria or Baffin</u>
2. For 5 points, identify the Japanese island that is number 7 on the list.
    Answer: <u>Honshu</u>
3. For 5 points, what is the 4th largest in the list?
    Answer: <u>Madagascar</u>
4. For 5 points, what is the only island in the list on which you would find portions of three different nations?
    Answer: <u>Borneo</u>

T5.Raised in poverty in San Francisco, he held a series of back- breaking jobs and for a time lived as a hobo. Determined to become a writer, he undertook a program of rigorous self-education. For ten points, name this author of White Fang and The Call of the Wild.
    Answer: Jack <u>London</u>

B5. For 5 points each, give the author and title of the 20th century American novel that opens with these lines.
1. "It was Wang Lung's marriage day".
    Answer: The <u>Good Earth</u>, Pearl <u>Buck</u>
2. "Robert Cohn was once middleweight boxing champion of Princeton."
    Answer: The <u>Sun Also Rises</u>, Ernest <u>Hemingway</u>

T6. A landlocked nation, it is bordered by India and China. In the south, there is arable land, but in the north are towering mountains. For 10 points, name this home of Mt. Everest with its capital at Khatmandu.
    Answer: <u>Nepal</u>

B6. Answer the following questions about Somalia.
1. For 5 points, what is its capital?
    Answer: <u>Mogadishu</u>
2. For 5 points each, name the three countries that share a border with Somalia.
    Answer: <u>Ethiopia, Kenya, Djibouti</u>

T7. Pencil and paper ready. The Franklin Mint sells two Civil War chess set pieces to each of its customers at $4 per piece. At the end of the day, the mint had taken in $160. For 10 points, how many people bought chess pieces?
    Answer: <u>20</u>

B7. For 10 pts. each, give the remainders when $x^4 + 5x^3 + 3x^2 - 4x - 3$ is divided by:

1. x + 3   Answer: <u>-18</u> [negative 18]

2. x - 2   Answer: <u>57</u>

T8. Although he was not as politically active as many of his contemporaries, he raised national consciousness and feeling through his works. One of his notable folk poems is The Ballad of Father Gilligan, but in America we may know this Irishman better for Sailing to Byzantium. For 10 points, name this poet.
Answer: William Butler <u>Yeats</u>

B8. For 5 points each, identify the 20th century British authors of the following novels.
1. Lucky Jim
    Answer: Kingsley <u>Amis</u>
2. The Third Man
    Answer: Graham <u>Greene</u>
3. Sons and Lovers
    Answer: D.H. <u>Lawrence</u>
4. Casino Royale
    Answer: Ian <u>Fleming</u>

T9. England's Durham Cathedral has barrel vaults and is an example of this architectural style. For ten points, name this archictectural style which preceded Gothic.
    Answer: <u>Romanesque</u>

B9. Give the major operatic composer who worked with the following librettists.
1. Lorenzo da Ponte   Answer: <u>Mozart</u>
2. Arrigo Boito   Answer: <u>Verdi</u>

T10. *2 answers required* The Sluggard, the Stammerer, the Lion, the Pious, the Quarreler, the Spider, the Saint, the Sun. All of these nicknames were given to men who have shared a first name and ruled the same nation. For 10 points, what are the name and the nation?
    Answer:<u>Louis</u> of <u>France</u>

B10. Answer the following questions about the Protestant Reformation for 5 points each.
1. What were the followers of English clergyman John Wycliffe called?
    Answer: <u>Lollards</u> or Poor Priests
2. On the church in what city did Martin Luther post his 95 Theses?
    Answer: <u>Wittenburg</u>
3. In what year did Luther post the 95 Theses?
    Answer: <u>1517</u>
4. What Pope excommunicated Martin Luther in 1521?
    Answer: <u>Leo X</u>

T11. He was able to kill the Chimera with the help of the winged horse Pegasus, but was thrown to his death when he tried to ride Pegasus to the summit of Olympus. For ten points, name him.
    Answer: <u>Bellerophon</u>

B11. For 5 points each, identify the book of the Bible from which the following quotations are taken.
1. The dead which he slew at his death were more than they which he slew in his life.
    Answer: <u>Judges</u>
2. For the wages of sin is death.
    Answer: <u>Romans</u>
3. And the greatest of these is love.
    Answer: <u>I Corinthians</u>
4. Miserable comforters are ye all.
    Answer: <u>Job</u>

T12. It is a tough protein high in sulfur content, and is made from the conversion of epidermal cells. Found as the outer portion of cow horns, it is also in the outermost layer of human skin and hair. For 10 points, name it.
        Answer: <u>keratin</u>

B12. Answer the following questions about plants for 10 points each.
1. This term is applied to the loss of water by diffusion from the surface of land plants.
    Answer: <u>transpiration</u>
2. It is a tissue composed of living thin-walled cells in the xylem which are round ended and almost as broad as they are long.
    Answer: <u>parenchyma</u>

T13. In them, speeds of 160 to 240 kilometers per hour are not uncommon and may increase up to 480 in the winter. They are found where sharp temperature changes produce strong temperature gradients. For 10 points, what are these narrow bands of very strong geospheric winds?
    Answer: <u>jet streams</u>

B13. Give the Latin name of the constellations whose name translates as the following in English. 5 pts. each.
1. Eagle
    Answer: <u>Aquila</u>
2. Swan
    Answer: <u>Cygnus</u>
3. Fishes
    Answer: <u>Pisces</u>
4. Dragon
    Answer: <u>Draco</u>

T14. A satirical novel of New York life, it describes the marriage of May Welland and Newland Archer who has a crush on her cousin, but is frustrated due to his obedience to the social codes of his class. For 10 points, name this Pulitzer Prize winning novel by Edith Wharton.

Answer: The Age of Innocence

B14. Identify the American authors of the following short stories or short novels for 5 points each.
1. Pale Horse, Pale Rider
Answer: Katherine Anne Porter
2. The Kugelmass Episode
Answer: Woody Allen
3. Death of a Travelling Salesman
Answer: Eudora Welty
4. Barn Burning
Answer: William Faulkner

T15. In 1785 Henry Cavendish was trying to get a sample of air to react to form nitrous oxide but a stubborn 1/120th of the air would not react. In 1894 this gas was isolated by Ramsay and Rayleigh. Due to its unreactive properties they named it "the lazy one." For 10 points, identify this noble gas with atomic number 18.

Answer: Argon

B15. Give the IUPAC name for the following organic compounds. 10 points each.
1 CH3-CH2-CH2-CH3
Answer: butane
2. CH3CH2OH
Answer: ethanol or ethyl alcohol

T16. Examples of use include "He is a little careless when handling the truth" and "He passed away". For 10 points, what term is given to this use of a mild or inoffensive statement in place of what is regarded as an unpleasant statement.

Answer: euphemism

B16. Identify the following similar terms that begin with the letters "hom". 10 pts each.
1. A story or lecture on a religious, in modern usage a short sermon
Answer: homily
2. Two or more words that have the same spelling but are of different origin. For example lead the verb or lead the metal.
Answer: homograph(s)

T17. Holy Roman Emperor Wenceslaus supported him. But an archbishop excommunicated him in 1410. Many of his ideas foreshadowed the Reformation, especially the denial of papal infallibility. He was executed after being lured to the Council of Constance. For 10 points, name this Czech reformer.
    Answer: Jan <u>Hus</u>

B17. Identify the authors of the following works of political theory for 5 points each.
1. On Liberty
    Answer: John Stuart <u>Mill</u>
2. The Social Contract
    Answer: Jean-Jacques <u>Rousseau</u>
3. The Spirit of the Laws
    Answer: Charles Louis de Secondat, Baron <u>Montesquieu</u>
4. Reflections on the Revolution in France
    Answer: Edmund <u>Burke</u>

T18. You can use your knowledge of spontaneous radiation to answer this question. For 10 points, an alpha particle is identical in composition to the nucleus of which of the noble gases?
    Answer: <u>helium</u>

B18. You have been magically transported into a realm of physics where all constants of proportionality equal one. Given that the gravitational constant equals 1. For 10 points each: 1. What is the force of attraction between two 6 kilogram objects located 2 meters apart?
    Answer: <u>9</u> newtons
2. What is the absolute value of the potential energy of either object in relation to the other?
    Answer: <u>18</u> joules

T19. Although this technique probably originated in the Middle East, the French, Japanese and Russians perfected it. This method includes outlining a design with metal filaments, filling in with colored enamels, and firing to produce a glossy finish, especially attractive in jewelry. For ten points, name this artistic method.
    Answer: <u>cloisonne</u> [klwah-zuh-nay]

B19. For 10 points each, identify these architects associated with the Bauhaus.
1. He founded the school in Weimar in 1919.
    Answer: Walther <u>Gropius</u>
2. In 1930, this architect of the Seagram building took over the directorship of the school.
    Answer: Ludwig <u>Mies van der Rohe</u>

T20.Most instances of this food poisoning result from improperly canned goods. Untreated cases can lead to death by suffocation. For ten points, name this caused by the bacterium <u>Clostridium botulinum</u>.
        Answer: <u>Botulism</u> [not salmonella]

B20. Quite a few bodily parts and processes are named for people, usually their discoverers. Fill in these blanks with their discoverer's names for 5 points each.
1. blank Capsule in the kidney   Answer: <u>Bowman's</u>
2. blank Gland in the male reproductive system Answer: <u>Cowper's</u>
3. islets of Blank in the pancreas   Answer: <u>Langerhans</u>
4. blank body or apparatus in the cell   Answer: <u>Golgi</u>

T21. Pedro II is declared Emperor of Brazil, the U.S., Britain, Holland, and Belgium recognize the independence of Texas, Upper and Lower Canada are united by the British Parliament, and William Henry Harrison is elected president. For 10 points, in what year did all the preceding occur?
        Answer: <u>1840</u>

T22. Ketti Frings won the 1957 Pulitzer Prize for drama for her adaptation of this 1929 novel. It is set in Altamont and tells the story of Eugene Gant. For 10 points, identify this work by Thomas Wolfe.
        Answer: <u>Look Homeward, Angel</u>