1995 Georgia Tech MLK Invitational Maryland "Less Filling" Toss-ups by V. Jejjala, K. LaSala, M. Starsinic

- T-1. Also successful as an opera by Louis Gruenberg in 1933, the play was published some 13 years earlier. The title character, a former Pullman porter, retrogresses on the evolutionary ladder becoming a participant in a slave auction and finally becoming a victim of his own aboriginal fears. Eventually gunned down by silver bullets, the protagonist is ritualistically hunted to the steady beating of tom-toms. FTP identify this play set in the jungles of the West Indes that concerns the demise of a Eugene O'Neill despot.

  \_The EMPEROR JONES\_ (do not accept \_Brutus Jones\_)
- T-2. Twice chairman of the British Interplanetary Society, he has been an outspoken proponent of the colonization of the Moon and Mars. With training in mathematics and physics, his article "Extra-Terrestrial Relays" (1945) pointed out the possibility of a global television satellite. His latest novel is \_The Hammer of God\_. One of the original Grandmasters of Science Fiction, his other novels include \_Childhood's End\_, \_Rendezvous with Rama\_, and \_2001: A Space Odyssey\_. FTP identify this resident of Sri Lanka. \_Arthur C. CLARKE\_
- T-3. This famous Arab nationalist was known as the founder of Arab socialism, a program which called for the confiscation of 600,000 acres of wealthy landowners. His programs ended up causing international strife, when he proposed build a dam on the Nile by nationalizing the Suez Canal Company. This move led to an Anglo-French invasion of the Canal Zone, and the Israeli invasion of the Sinai Peninsula. FTP name this Egyptian leader, who finally completed the Aswan High Dam in 1970 with Soviet backing.

  \_Gamal Abdel NASSER\_
- T-4. His school is often referred to as the Garden after the place where he taught in Athens. Only fragments of his work remain, but his biographer Diogenes Laertius gives the texts of three epistles and forty maxims which indicate his advocacy of reliance on the senses to understand the world. In order to reduce man's anxiety he posited a materialistic physics in which the universe consisted of Democritean atoms and void. FTP identify this Greek philosopher who maintained that Pleasure is the greatest good.

  \_\_EPICURUS\_
- T-5. He is currently studying the shock wave generated by Supernova 1987A. Far better remembered for his contributions to the theory of atomic nuclei and his efforts as head of the theoretical division on the Manhattan Project, his work on nuclear reactions led him to propose that stars produce their energy by converting hydrogen to helium through the proton-proton chain. FTP name the prominent critic of SDI who presented a model of the Big Bang with Ralph Alpher and George Gamow and won the 1967 Nobel Prize in Physics.

  \_Hans BETHE\_
- T-6. Parsons, Engel, Fischer, and Spies. These four men were hung in 1887 for their involvement in this civil disturbance. It began as a dispute between the McCormick Harvester Company and the Knights of Labor, but became violent when 180 policemen tried to break up a meeting of nearly 1,500 protesters. FTP name this famous event which happened on May 4, 1886 in Chicago, which turned public sentiment against the Knights of Labor.

  \_The HAYMARKET SQUARE RIOT\_ (or equivalents)
- T-7. The painting recalls Rubens' \_Garden of Love\_. In the background cupids rise and play. A garlanded image of Venus appears on the far right. The mood is wistful as couples prepare to board a boat in a foreground park-like setting and depart the island of love. FTP identify the 1717 painting by Jean-Antoine Watteau that embodies the rococo aesthetic.

  \_PILGRIMAGE TO/FROM CYTHERA\_ or
  \_EMBARKATION TO/FROM CYTHERA\_

T-8. An unsophisticated and innocent man, he is caught up in a breach of promise suit instigated by Mrs. Bardell's misinterpretation of some of his remarks as a marriage proposal and the unprincipled lawyers Dodson and Fogg. Accompanied by his servant Samuel Weller, he is incarcerated in Fleet prison. When released, he retires to a house outside of London with Sam Weller and Weller's bride. FTP identify this naive and benevolent gentleman, the founder of an association whose posthumous papers catapulted Charles Dickens to fame.

# \_Samuel PICKWICK\_

T-9. A group of immune system growth and differentiation factors, they are involved in anti-viral activity. The alpha and beta varieties are produced by macrophages and fibroblasts and increase natural killer cell function. The more famous gamma variety is produced by T-cells and is important in immunoglobulin and antibody production. FTP identify this class of proteins responsible for transient and non-specific immunity following infection that may also be important in combatting cancer.

\_INTERFERON\_

- T-10. During his reign, the silk culture was introduced to France, and the colonization of Canada was begun. His reign almost never happened, because the Saint Bartholomew Day's Massacre was ordered during his wedding festivities. He was spared and assumed the French throne in 1589 after the last of the Valois kings was assassinated. FTP, name this French king who tried to bring about the end of the French Wars of Religion by converting to Catholicism and issuing the Edict of Nantes before his assassination in 1610.

  \_HENRY IV\_ or \_HENRY OF NAVARRE\_
- T-11. The theory was championed in the United States by the critic Andrew Sarris. It first appeared in the influential magazine \_Cahiers du Cinema\_in the early 1950's. Championed by Truffaut, Godard, Rohmer, and others who were to become the vanguard of the New Wave, it was an effort to free directors from traditional script-dominated films. FTP name the theory that asserts that although films are collaborative endeavors, they should ultimately bear the artistic stamp of the director, whose personal vision creates a film just as an author would create a book.

\_AUTEUR Theory\_ (ask for more on an early \_New Wave\_ buzz)

T-12. They were suggested at an International Congress of Mathematicians in Paris in 1900. The first is the continuum hypothesis proved formally undecidable by Godel and Cohen. The eighth concerns the still unsolved problem of the zeroes of the Reimann zeta function. The other twenty-one also address seminal issues in all branches of mathematics. FTP identify their collective name and you'll also name the Gottingen professor who proposed these queries.

\_David HILBERT'S PROBLEMS\_

T-13. Comedies by Moliere and Shaw. Dramas in verse by Zorrilla Y Moral and Pushkin. Stories by Dumas, Balzac, and Flaubert. A tone poem by Richard Strauss. FTP identify the legend introduced in a play by Tirso de Molina that also inspired a Byron epic satire and a Mozart opera about the life and death of a Spanish profligate.

\_DON JUAN\_

T-14. Early in his career, this West point graduate served in the Black Hawk War, and became the Secretary of War of the Republic of Texas. When the Civil War broke out, he commanded the Department of the Pacific and San Francisco, but joined the South after rumors broke out that he was going deliver California to the Confederacy. He then took over control of the Southern forces in the West until 1862. FTP name this Southern general who was though to be one of the South's leading military commanders until his death at the battle of Shiloh in 1862.

\_Albert Sidney JOHNSTON\_

T-15. He is chiefly remembered for his ingratitude in refusing to give the rewards he had promised to Apollo for pasturing his flocks on nearby Mt. Ida, to Poseidon for building the walls of his city, and to Heracles for rescuing his daughter Hesione from the sea-monster sent by Poseidon to exact vengeance. FTP identify this king of Troy and father of Priam who was slain by Heracles.

### \_LAOMEDON

T-16. As large as the state of Texas, it is one of the most barren areas on Earth, with virtually no rainfall or vegetation, and with only a few nomadic tribes occasionally passing through it. Still not fully explored, the borders of Yemen, the United Arab Emirates, and Oman, with Saudi Arabia in this area have never been firmly established. FTP, name this desert whose English translation means "the empty quarter".

\_RUB AL KHALI\_

T-17. In his early career, his behavior was eccentric, violent, and dissipated. A masochist and epileptic as well as an alcoholic, this poet was taken into the home of the English critic Theodore Watts-Dunton and spent the last thirty years of his life in what amounted to protective custody. Among his lesser known works are the novels \_Love's Cross Currents\_ and \_Lesbia Brandon\_; his better known poems include "Hymn to Proserpine", "Hymn to Artemis", and "The Triumph of Time". FTP name this Victorian man of letters chiefly remembered today for his play \_Atalanta in Calydon\_.

\_Algernon SWINBURNE\_

T-18. Born of Plebian stock, he was a lifelong, fanatical foe of the privileged aristocracy. After winning the Roman consulate, he led a successful campaign against the African prince Jugurtha. For the next fifteen years as leader of the republican party he vied for popular acclaim, and when the Roman civil war broke out in 90 BC, he fought his mortal enemy Lucius Cornelius Sulla. FTP identify the Roman general who died in 86 BC.

# \_Caius MARIUS\_

- T-19. He often signed his letters to such friends as Kelvin and Tait dp/dt, a witty reference to a statement of the second law of thermodynamics that yields his initials. He actually challenged the validity of the second law by claiming that it was a statistical description of nature subject to exception. He illustrated this contention by suggesting the existence of a being that would separate molecules according to their kinetic energies thereby constructing what amounts to a perpetual motion machine. FTP name the physicist whose demon was exorcised through the efforts of Szilard and Brillouin who also developed the Lorentz invariant laws of electromagnetism.

  \_James Clerk MAXWELL\_
- T-20. He consulted Freud regarding his wife's extramarital exploits with Gropius. A Bohemian composer in the classical-romantic style, he was strongly influenced by Beethoven, Bruckner, and Wagner. Reflective of his musical credo that "the content must shape the form", his symphonic works do not always follow the conventional four movement scheme and often employ unorthodox instrumentation. FTP identify this composer of ten symphonies, the last unfinished, who used a cycle of poems by Li Po as the inspiration for his \_Das Lied von der Erde\_.

\_Gustav MAHLER\_

T-21. It runs in families and may cause episodic abdominal pain, skin changes, neuritis, and mental abnormalities. Certain drugs can precipitate acute attacks of this metabolic disease caused by disordered hemoglobin synthesis. FTP name the disease that may have contributed to the madness of King George III.

## \_PORPHYRIA\_

T-22. Born in New Orleans, he wrote profiles and travel sketches for the \_New Yorker\_ which were later published in \_Local Color\_ and \_The Muses are Heard\_. His grotesque "non-fiction novel" \_In Cold Blood\_ reflects

his interest in psychopathology while his \_Music for Chameleons\_ develops a new, experimental style that employed elements from multiple genres of writing. FTP name this twentieth century writer who created a slightly sinister and subtly surreal world in his first novel \_Other Voices, Other Rooms .

### \_Truman CAPOTE\_

- T-23. After a successful career as an attorney, he entered politics and was eleven times premier of France. A socialist leader, he spent the last seven years of his life as French foreign minister. FTP identify the statesman who won the 1926 Nobel Peace Prize for an ineffectual treaty renouncing "war as an instrument of national policy".

  \_Aristide BRIAND\_
- T-24. First claimed officially in 1884 during the great European rush to expand territories in Africa, it remained largely a thinly inhabited backwater until 1975, when Spain ceded control of it. It is recognized as independent by some countries, and as the S.A.D.R. has been a member of the Organization of African Unity since 1982. FTP, name this region where Polisario rebels continue to fight its occupation by Morocco.

### \_WESTERN/SPANISH SAHARA\_

T-25. He stressed simplicity and evocative gesture rather than movement and brought about a revolution in art through his mastery in creating the illusion of weight by means of light and shade. Borrowing from his contemporary Filippo Brunulleschi, in such frescoes as \_The Holy Trinity\_ he introduces the technique of linear perspective to construct spaces. FTP identify the Florentine painter, born Tommaso di Giovanni, whose 1427 frescoes at the Brancacci Chapel represented the pinnacle of Early Renaissance painting.

#### \_MASACCIO\_

- T-26. On passing his brother's grave while returning to Rome, he wrote a famous ode that ends "Frater, ave atque vale"--"Brother, hail and farewell." Dying in his thirties in the first century BC, many of his 115 other extant poems tell of his love for the unscrupulous Clodia who became the dark muse Lesbia in his poetry. FTP name this Roman lyric poet.

  \_Gaius Valerius CATULLUS\_
- T-28. This suffragette studied law in her father's office. where she found out that women were considered inferior to men. She was so determined to end discrimination against women that she had the word "obey" removed from her wedding vows in 1840. FTP name this woman who finally managed to start the women's movement by organizing the 1848 Woman's Rights Convention with Lucretia Mott.

### \_Elizabeth Cady STANTON\_

- T-29. The best known of these in the northern hemisphere are the Pleiades. Due to their irregular shape they are often termed open clusters and unlike globular ones are the sites of star formation. FQTP identify these groups of a few hundred stars that lie within the plane of the Milky Way.

  \_GALACTIC CLUSTERs\_
- T-30. The site of the first Christian church in England, Joseph of Arimathea is said to have planted his staff there. Traditionally associated as the place where Bors, Percival, and Galahad achieve the Holy Grail, Arthur and Guinevere are said to be buried at an abbey there. FTP identify this ancient town in Somerset, England to which the faithful made a Christmas pilgrimage during the Middle Ages.

\_GLASTONBURY\_

1995 Georgia Tech MLK Invitational Maryland "Less Filling" Bonus Questions by V. Jejjala, K. LaSala, M. Starsinic

All bonus questions are worth 30 points.

B-1. FTP each identify these Chinese dynasties.

a. It was established by Yang Chien in 590 and lasted thirty-eight years. Name the dynasty during which a vast canal system was established and the country was reunited after a period of disunity following the Han dynasty.

\_SUI\_

- b. Following the Sui dynasty it lasted from 618-906. It saw the proliferation of the empire, the origins of Ch'an Buddhism, and the golden age of literature. Name the dynasty whose decline began with the An Lu-shan Rebellion and the sack of the capital at Sian.

  \_T'ANG\_
- c. Following the Sung dynasty, it was established by Ghenghis Khan's successors who integrated China into the Mongol Empire. Name the period marked by large-scale contacts among the peoples of China and Europe that included Marco Polo's thirteenth century visit.

  \_YUAN\_
- B-2. Identify these nineteenth century physicists FTP each.
- a. Though he made important contributions to acoustics by recognizing the ability of the human ear to recognize mixed sounds by resolving them into component pure tones, he is better remembered for his discovery that the potential across a material is proportional to the current through it.

\_Georg Simon OHM\_

- b. In the early 1820's he developed Oersted's experiments on the interaction between magnets and electric currents and investigated the forces between current-carrying dielectrics.
   \_Andre Marie AMPERE\_
   c. He won great fame by helping astronomers rediscover the asteroid Ceres
- c. He won great fame by helping astronomers rediscover the asteroid Ceres after it had been lost. Shortly thereafter, this prolific genius turned to the study of terrestrial magnetism.

  \_Johann Karl Friedrich GAUSS\_
- B-3. For the stated number of points, identify these characters from American literature of the nineteenth century.
- 5: He upholds the law and hangs Billy Budd realizing that justice, rather than mercy, must be administered to maintain order. Name him.

\_Captain VERE\_

5: Who is the Yankee plantation owner who kills Uncle Tom?

\_Simon LEGREE\_

10: Name the father of Uncas, the last of the Mohicans.

\_CHINGACHGOOK\_\_

10: Identify the fictional detective who uses fingerprint evidence to solve a murder mystery and a case of transposed identities.

\_David "Pudd'nhead" WILSON\_

- B-4. Name these landscapists on a 10-5 basis.
- 10: At the age of twenty-seven, he established himself permanently in Rome and explored the countryside of nearby Campagna thoroughly and affectionately in his paintings.
- 5: A great exponent of the Baroque, this Frenchman's landscapes are idyllic and nostalgic. His works include \_A Pastoral Landscape\_ (1650).

  \_\_Claude LORRAINE\_
- 10: Celebrated for his idyllic scenes of pastoral love, this early sixteenth century artist and pupil of Giovanni Bellini died at the age of thirty-two.
- 5: Among the few works that can be definitively attributed to him are the \_Castelfranco Altarpiece\_ (1504) and \_The Tempest\_ (1506).

\_I1 GIORGIONE\_

- 10: Mostly self-taught, he repeatedly sketched the same scenes, most notably Salisbury cathedral, under varying conditions. His work influenced Eugene Delacroix and the Barbizon School.
- 5: Among his great works are \_Hampstead Heath\_ (1821) and \_The Haywain\_ (1821). \_John CONSTABLE\_
- B-5. Identify the author of a given philosophical work FFP each.
- a. \_The Philosophy of Right\_ (1821) \_Georg Friedrich Wilhelm HEGEL\_

	Į,
bAn Enquiry Concerning Human Understanding_	
dThe Phases of Human Progress_ (1905-1906)	
eThree Dialogues between Hylas and Philonous	s_ (1713) _George BERKELEY_
	_Henri BERGSON_
B-6. Given a brief description of a leader of a outbreak of World War I, give his name FTP each. a. The English Foreign Minister who attempted to	
Serbia before war broke out. b. The German Chief of Staff who pushed for earl	_Sir Edward GREY_ y German mobilization to enact
c. The French President, whose visit to Russia i	_Gen. Helmuth von MOLTKE_ n July reassured the Russians _Raymond POINCARE_
	timing of light and dark _PHOTOPERIODISM_
	_PLASMOLYSIS_
c. Any of several single-ringed nitrogenous base	s found in nucleotides. _PYRIMIDINE_
d. Alternating waves of contraction and relaxati structure such as the digestive tract. e. The active engulfing by a cell of liquid part	_PERÎSTALSÎS_
f. The simultaneous occurrence of several discon	_PINOCYTOSIS_ tinuous phenotypes in a _POLYMORPHISM_
B-8. For the stated number of points, answer th Brothers Karamazov	
5: The brother who killed Fyodor Pavlovich, the klanSMERDYA	KOV_
10: This parable offered by Ivan to Alyosha expreligious doubts. In it, a menacing old churchm returned to the Earth and been incarcerated and saying that the Church no longer needs him.	an visits Jesus who has
_The Leg 15: Widely considered to be the religious spoke the elder monk who preaches a message of love an _ZOSIMA_	d forbearance.
B-9. 30-20-10 identify the composer.	
30: His works, catalogued under the code letter Though twenty-seven years Beethoven's junior, thare buried next to each other in Vienna.	
20: As a composer, he wrote over 600 lieder. A like _The Erl King_ and _The Trout_, he wrote th the Mill_ and _Winter's Journey	
10: His favorite poets were Schiller and Goethe and Scott to music. His _Quintet in C major_ is best piece of chamber music. He also wrote nine	generally regarded as his symphonies of which the
ninth, also in C major, is referred to as "The G	reat". _Franz Peter SCHUBERT_
B-10. Given the figure from Greek mythology, id	entify an associated figure
a. Father of Jason	_AESON_ DANAE
c. Daughter of Cassiopeia	_DANAE_ _ANDROMEDA_
d. Mother of Achilles e. Brother of Heracles	_THETIS_ _IPHICLES_
	_AEGEUS_

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- B-11. How well do you remember the Vietnam War? Answer these questions FTP each. a. Name the Premier of South Vietnam from 1954 until the coup in 1963. \_Ngo Dinh DIEM\_ b. Name the U.S. destroyer that was attacked in the Gulf of Tonkin on August \_U.S.S. MADDOX\_ c. Name the U.S. general who replaced General Westmoreland in 1968. \_Gen. Creighton ABRAMS\_ B-12. Given the constant name it FTP each. a. 0.511 Mega-electron-Volts/c^2 \_ELECTRON rest MASS b.  $8.854 \times 10^{-12}$  Farads/meter \_PERMITTIVITY of VACUUM\_ c. 0.529 Angstroms \_BOHR RADIUS\_ B-13. Name the British poet from lines FTP. Five points are awarded if you need the name of the poem. 10: "The ice was here, the ice was there, / The ice was all around: / It cracked and growled and roared and howled, / Like noises in a swound." \_Samuel Taylor COLERIDGE\_ "The Rime of the Ancient Mariner" (not William Wordsworth ) "Twilight and evening bell, / And after that the dark! / And may there be no sadness of farewell / When I embark." \_Alfred, Lord TENNYSON "Crossing the Bar" "Things fall apart: the center cannot hold; / Mere anarchy is loosed upon the world, / The blood-dimmed tide is loosed, and everywhere / The ceremony of innocence is drowned." \_William Butler YEATS\_ "The Second Coming" B-14. Given a description of a famous Supreme Court case, you give me the name of the case for the stated number of points. 5: Chief Justice John Marshall established the principle of judicial review \_MARBURY V. MADISON\_ with this case. 10: In this case, Justice Oliver Wendell Holmes enunciated the doctrine of \_SCHENK V. UNITED STATES "clear and present danger". 15: In this 1832 case, Chief Justice Marshall ruled that Georgia had no right over the region rightfully belonging to the Cherokees, because the tribe was under the protection of the federal government. In response President Jackson stated, "John Marshall has made his decision, now let him enforce it." \_WORCESTER V. GEORGIA\_ B-15. Ah, what the heck. Let's have another of Maryland's patented Geography from Hell bonuses. Name these geographical features from descriptions, FTP a. The strait separating Vancouver Island from Washington State. \_Strait of JUAN DE FUCA\_ b. Japanese island chain stretching from Kyushu to Taiwan which includes RYUKYU Islands c. The Australian peninsula separating the Gulf of Carpenteria and the Coral CAPE YORK Peninsula\_ Sea. B-16. Given a brief description, identify the member of the Bloomsbury Group for the stated number of points. 5: He published four novels from 1905-1910. Two of them, \_Where Angels Fear to Tread\_ and \_A Room with a View\_, are set in Italy. Name him. \_E. M. FORSTER\_ The death of her brother in 1906 is reflected in the deaths of Percival in \_The Waves\_ and Jacob in \_Jacob's Room\_. Name her. \_Virginia WOOLF\_ 10: Name the biographer whose writings include \_Eminent Victorians\_, Landmarks in French Literature\_, and \_Queen Victoria\_.
- \_Lytton STRACHEY\_ 10: He married Virginia Woolf's sister. Name the art critic whose theory
- of significant form provided the basis of the modernist aesthetic that he presents in works such as \_Since Cezanne\_ and \_Proust\_. \_Clive BELL\_

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B-17. 30-20-10 name the actor from his films.
30: _The Greatest Show on Earth_, _How The West Was Won_, _Mr. Hobbs Takes
A Vacation_
20: _You Can't Take It With You_, _Winchester '73_
10: _Harvey_, _Mr. Smith Goes To Washington_
                                                _James STEWART_
B-18. Name the compound from its chemical formula FFP each.
a. Na2SO3
                                        _SODIUM SULFITE
                                        _LITHIUM CHLORATE
b. LiClO3
c. BaC204
                                        _BARIUM OXALATE
d. KH2PO4
                                        _POTASSIUM DIHYDROGEN PHOSPHATE_
e. CuCN
                                        _COPPER(I) CYANIDE_ or _CUPROUS CYANIDE_
f. NH4C2H3O2
                                        AMMONIUM ACETATE
B-19. Everyone knows that it was Napoleon's last battle, but what else do you
know about the Battle of Waterloo? Answer the following questions about the
battle FTP each.
a. Identify the leader of the Prussian troops which arrived in time to
reinforce Wellington.
                                        _Marshal Gebhard Leberecht von BLUCHER
b. Give the name of the inn which served as Napoleon's headquarters, and
Blucher felt should be the name of the battle.
                                        _LA BELLE ALLIANCE_
c. Provide the name of the French general and adviser to Napoleon whose cavalry
charge during the battle almost broke the British line.
                                        _Marshal Michel NEY_
B-20. 30-20-10 Name the American writer.
30: He held a variety of jobs including serving as a manager for Western
Union before settling in France for nine years during which he published
his most famous works.
     Travelling from Italy to Greece at the beginning of World War II, he
wrote _The Colossus of Maroussi_ in which he proclaimed that the genius
of Greece does not lie in its ruins but in the spirit of its people.
10: Settling in the Big Sur region of California, he wrote the _Rosy
Crucifixion_ trilogy that nearly equaled the success of his previous novels
_Tropic of Cancer_ and _Tropic of Capricorn_.
                                                _Henry MILLER_
B-21. Given a famous quote from American history, you give me the speaker
FFP each and a five point bonus for all correct.
                                                _James LAWRENCE_
a. "Don't Give Up the Ship."
                                                _Oliver Hazard PERRY_
b. "We have met the enemy, and they are ours."
c. "War is hell."
                                                _William T. SHERMAN_
d. "Nuts."
                                                _Anthony C. McAULIFFE_
e. "There stands Jackson like a stone wall."
                                                Barnard BEE
B-22. Name the twentieth century composer from works FFP each.
a. _The Soldier's Tale_, _The Rake's Progress_
                                                _Igor STRAVINSKY_
b. _Fantasia on a Theme from Thomas Tallis_, _Fantasia on Greensleeves_
                                               _Ralph VAUGHN WILLIAMS_
c. _Mississippi Suite_, _Grand Canyon Suite_
                                                _Ferde GROFE_
d. _Lieutenant Kije Suite_, _Romeo and Juliet_
                                               _Sergey PROKOFIEV_
                                              _Arnold SCHOENBERG_
e. _Pierrot Lunaire_, _Ode to Napoleon_
f. _Mysterious Mountain_, _Magnificat_
                                               _Alan HOVHANESS_
B-23. Give the scientist who shared a Physiology or Medicine Nobel Prize
with these other biologists for the stated number of points.
5: 1962, with James Watson and Francis Crick
                                               _Maurice H. F. WILKINS_
5: 1965, with Andre Lwoff and Francois Jacob
                                               _Jacques MONOD_
10: 1973, with Konrad Lorenz and Nikolaas Tinbergen
                                                _Karl von FRISCH_
10: 1953, with Fritz A. Lipmann
                                                _Hans A. KREBS_
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B-24. Given the name of a work that won the Pulitzer Prize for History and
the year it was written, you give me the author FFP each.
a. _Roosevelt: The Soldier of Freedom_ (1971) _James McGregor BURNS_
b. _Present at Creation My Years in the State Department_ (1970)
                                                 _Dean ACHESON_
                                                 _Arthur M. SCHLESINGER Jr._
c. _The Age of Jackson_ (1946)
                                                 _Samuel Flagg BENIS_
d. _Pinckney's Treaty_ (1927)
e. _A Stillness at Appomattox_ (1954)
                                                  _Bruce CATTON_
f. _Paul Revere and the World He Lived In_ (1943)
                                                 _Esther FORBES_
       FFP each, name the authors of these science fiction short stories:
    "Do Androids Dream of Electric Sheep?"
                                                 _Phillip K. DICK_
    "Nightfall"
                                                 Isaac ASIMOV
    "Light of Other Days"
c.
                                                 _Bob SHAW_
                                                 _Ray BRADBURY_
    "A Sound of Thunder"
d.
                                                 _Harlan ELLISON
    "I Have No Mouth, and I Must Scream"
    "Who Goes There?"
f.
                                                 _John W. CAMPBELL_
B-26. Name the man who *discovered* each of these physical phenomena for
the stated number of points.
10: Photoelectric Effect
                                          _Gustav HERTZ__
10: Two answers required FFP each: CP Violation
                                         _Tsung-Dao LEE_ and _Chen Ning YANG_
10:
     Quantum Hall Effect
                                         _Klaus von KLITZING_
B-27. Identify the Restoration comedy from a list of characters FTP each.
a. Captain Absolute, Lydia Anguish, Mrs. Malaprop
                                                 _The RIVALS_
                                                _SHE STOOPS TO CONQUER
    Marlow, Miss Hardcastle, Mr. Hardcastle
                                                 _The BEAUX' STRATAGEM_
    Thomas Aimwell, Archer, Lady Bountiful
B-28. FFP each and an extra five for all correct, name the Five Classics
from the Confucian canon. Either English or Chinese names are acceptable.
_BOOK OF ODES (Shih ching)_, _BOOK OF CHANGES (I ching)_, _BOOK OF RITES (Li
Chi)_, _BOOK OF DOCUMENTS (Shu ching)_, _SPRING AND AUTUMN ANNALS (Ch'un
ch'iu)_
B-29. FTP each integrate these indefinite integrals with respect to x.
constant term is not needed in your answer. 15 seconds per part.
a. indefinite integral of secant x tangent-squared x + secant-cubed x dx
                                                 _SECANT X TANGENT X_
b. indefinite integral of natural log of a-cubed times a to the x dx
                                                 _3 A TO THE X_
c. indefinite integral of sine x cosine x dx
                                                 _ONE-HALF SINE-SQUARED X_
B-30. FFP each and a five point bonus for all correct, put these Popes in
correct chronological order from earliest to latest according to their reigns:
Gregory XVI, John XXIII, Pius XI, Paul VI, and Leo XIII.
_GREGORY XVI_ (1831-1846), _LEO XIII_ (1878-1903), _PIUS XI_ (1922-1939),
_JOHN XXIII_ (1958-1963), _PAUL VI_ (1963-1978)
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