

1999 Terrapin Invitational Tournament  
Questions by Kelly McKenzie  
TOSSUPS

T1. At the end of this novel, the protagonist meets Lloyd McHarg and analyzes his artistic break with Foxhall Edwards. His attendance at a lavish party convinces him to end his relationship with Esther Jack, and on returning to the modernized, altered Libya Hill for the funeral of Aunt Maw, George "Monk" Webber makes the title observation. FTP, name this sequel to *The Web and the Rock*, written by Thomas Wolfe.

Answer: \_YOU CAN'T GO HOME AGAIN\_

T2. These islands feature significant volcanic activity, especially on the islands of Savo and Simbo, and have their highest peak at Mount Makarakomburu. Consisting of a double chain of volcanic islands and atolls, including Santa Isabel, Malaita, and New Georgia, and converging on Makira, this island nation just east of Papua New Guinea has its capital at Honiara. FTP, name this country, home to the island of Guadalcanal.

Answer: \_SOLOMON\_ Islands

T3. This theory's symmetry corresponds to the non-abelian group SU(3), and it allows use of perturbation theory because it exhibits asymptotic freedom. Patterned after quantum electrodynamics, it uses the gluon as the analogue of the photon and color in place of electric charge. FTP, name this theory which uses quarks and antiquarks to describe the strong nuclear force.

Answer: \_QUANTUM CHROMODYNAMICS\_ (or \_QCD\_)

T4. Even though this empire's General Tokhtamysh sacked Moscow in the aftermath, General Mamai's defeat at the Battle of Kulikovo is often cited as the beginning of this empire's decline. Turkified and Islamized under Oz Beg, this eastern European empire was greatly expanded by Batu, for whose magnificent tent it is named, but in 1395 its capital of Sarai Berke was destroyed by Timur the Lame. FTP, name this western portion of the Mongol Empire.

Answer: \_GOLDEN HORDE\_ (or \_Kipchak\_ Khanate or \_Ulus Juchi\_) (prompt on Mongol Empire)

T5. Often depicted as a naked young man with wings at his temples, this god is sometimes described as living in the underworld or in the land of the Cimmerians. He was given the Grace Pasithea in marriage for helping Hera during the Trojan War, and gave Endymion the power to see his beloved Selene at all times. The son of Erebus and Nyx and twin of Thanatos, he is described as laying on a soft couch in a dark, misty cave on Lemnos near the river Lethe, where he is surrounded by his sons, including Icelus, Phantasus, and Morpheus. FTP, name this god of sleep.

Answer: \_HYPNOS\_ (or \_Somnus\_)

T6. This tragedy's action is motivated by the conflict between King Anselmo of Valencia and King Manuel of Granada. Manuel's daughter Almeria secretly marries Anselmo's son Alphonso only to be separated in a shipwreck, and after a series of misunderstandings King Manuel is killed by his own orders and Alphonso overthrows Manuel's government and regains his wife. FTP, name this drama known for the lines "a fury, like a woman scorn'd" and "Music hath charms to soothe a savage breast", the only tragedy by William Congreve.

Answer: The \_MOURNING BRIDE\_

T7. This artist of "Agrippina Landing at Brundisium With the Ashes of Germanicus" was a pioneer in the use of medieval subjects, as seen in his series of paintings from the life of Edward III. Training in Italy and settling in London in 1763, this artist was a champion of the Romantic movement in works like "Saul and the Witch of Endor" and "Death on a Pale Horse," was appointed historical painter to George III, and became President of the Royal Academy in 1792. FTP, name this American artist of "Penn's Treaty With the Indians" and "The Death of General Wolfe."

Answer: Benjamin \_WEST\_

T8. This bacteria, much studied in the field of molecular genetics, is the most common causative organism of cystitis in women. An integral part of the normal gastrointestinal flora, this gram-negative bacteria, whose effects can be treated using polymyxin or by replacing lost fluids, is transmitted by water, milk, food, or insects, and can cause illness in humans by giving off toxins, by directly invading mucosal linings in the intestines, or by adhering to the intestinal wall. FTP, identify this bacteria whose name is best known in its abbreviated form.

Answer: E. COLI (or Escherichia coli)

T9. After WWII, this group's most influential member was probably Jurgen Habermans. Publishing much of their work in the "Journal for Social Research," this philosophical school critiqued the industrialization of culture and the decline of the individual within capitalist society using basic Marxian concepts, an approach which became known as "critical theory." They were associated with the Institute for Social Research, the first Marxist research center affiliated with a German university. FTP, name this group which included Walter Benjamin, Herbert Marcuse, Erich Fromm, and Theodore Adorno, named for a German city.

Answer: FRANKFURT School

T10. This politician served as ambassador to France from 1816-23 and to Britain from 1826-27, and is also known for founding the American Ethnological Society. Elected to the Senate in 1793 but unable to serve because he had been a US citizen for less than nine years, this native of Switzerland became minority leader of the Democratic Party and its expert on finance. FTP, name this politician who financed the war on the Barbary Pirates, cut the national debt, and financed the Louisiana Purchase as Secretary of the Treasury from 1800-14.

Answer: (Abraham) Albert GALLATIN

T11. Childhood was one of the major themes of this poet's verse, as seen in the collection The Lost World. As a critic he is noted for revitalizing the reputations of Frost, Whitman, and Williams, and for his critical works A Sad Heart at the Supermarket and The Third Book of Criticism. His only novel, Pictures from an Institution, is about a progressive girl's college, while his poetry, mainly based on his experiences as an instructor in the Air Corps during WWII, is found in collections like Blood for a Stranger and Little Friend, Little Friend. FTP, name this author of "The Death of the Ball Turret Gunner."

Answer: Randall JARRELL

T12. This astronomer, the first to realize that the apparent voids in the Milky Way are dark nebulae of dust and gas, began working as an assistant in a photographic studio at the age of nine. Chair of practical astronomy at the University of Chicago, this astronomer renowned for his eyesight discovered the fifth satellite of Jupiter in 1892, but he is probably best known for his discovery of a "run-away" object in the constellation Ophiuchus. FTP, name this astronomer who discovered his namesake star, the second closest to the Sun.

Answer: Edward BARNARD

T13. This religious order's Bollandist sect publishes the Acta Sanctorum, the great collection of biographies and legends of the saints. Doing away with traditional practices like regular penances and fasts in the interest of mobility and adaptability, this order's preeminent position in the Roman Catholic Church led to its abolition by Clement XIV. After its reestablishment by Pius VII, however, it was free to continue its education and missionary endeavors, which had begun with the missionary work of Francis Xavier. FTP, name this order founded by Ignatius of Loyola.

Answer: JESUITS (or Society of Jesus)

T14. Some of this psychologist's lesser known works are A Way of Being, On Becoming A Person, and Becoming Partners: Marriage and Its Alternatives. While at the Rochester Guidance Center he developed the material for The Clinical Treatment of the Problem Child, and later went on to pioneer encounter group technique, originate the non-directive, or client-centered, approach to psychology, from which grew his Self Theory of Personality, and pen the classic Counseling and Psychotherapy. FTP, name this American psychologist, the founder of humanistic psychology.

Answer: Carl Ransom ROGERS

T15. At the height of his power, this author of *Compendium revelationum* and *Triumphus crucis* was offered a cardinal's hat, but responded, "A red hat? I want a hat of blood." However, his feud with Pope Alexander VI led to his death at the stake in 1498. FTP, name this vicar of San Marco who predicted the fall of Piero de Medici, after which, despite the opposition of the Arrabbiati, he took political control of Florence, ushering in a brief period of religious fervor.

Answer: Fra Girolamo *SAVONAROLA*

T16. Living at a depth of 200-300 meters, this brown to blue colored fish is typically 1-2 meters long and weighs over 80 kilograms. Covered with rough, circular, overlapping scales and possessing a three-lobed tail fin that can be used for seabed movement, this Indian Ocean fish, *Latimeria chalumnae*, is often found as fossils in deposits about 400 million years old, and no fossils less than 70 million years old have been found. FTP, name this bony fish thought extinct until one was caught in 1938.

Answer: *COELACANTH* (accept early answer of *Latimeria chalumnae*)

T17. Featuring the aria "Di rigori armato il seno" and the trio "Hab' mir's gelobt," this opera tells of Sophie von Faninal's betrothal to the crude Baron Ochs von Levchenau. Ochs' cousin, the Marschallin, sends her lover Octavian to visit Sophie on Ochs' behalf, but Octavian and Sophie promptly fall in love, and with the help of Valzacchi and Annina, they catch Ochs trying to seduce a young maid who is really Octavian in disguise. Such is the plot of, FTP, what comic opera by Richard Strauss?

Answer: *Der ROSENKAVALIER* (or *The Knight of the Rose*)

T18. Two of Rome's kings, Numa Pompilius and Ancus Marcius, had their origins with these peoples, and like the Samnites, they inhabited the Apennines and probably spoke Oscan. Badly defeated by the Romans in 449 BCE, they were conquered two centuries later by Manius Dentatus, who made them citizens without vote, after which they were rapidly Romanized. FTP, name these peoples ruled by the legendary Titus Tatius, best known today for the legend recounting how Romulus, in need of wives for his men, lured their male population away and abducted their virgins.

Answer: *SABINES*

T19. As this play opens, Rosaura happens upon a tower while looking for Duke Astolfo, whom she plans to kill to avenge her honor. In the tower she meets her father Clotaldo, who is tutor to King Basilio's son, who has been imprisoned in the tower since his birth due to evil portents. However, Basilio soon has Segismundo drugged, brought to the court of Poland, and installed as the new ruler, having determined that if Segismundo fulfills the portents he will be returned to the tower and told that the experience was his imagination. FTP, name this drama by Pedro Calderon de la Barca.

Answer: *LIFE IS A DREAM* (or *La vida es sueño*)

T20. Author of the autobiography *Living My Life*, this activist worked closely with Alexander Berkman, jointly publishing the magazine "Mother Earth" with him. As recorded in *My Disillusionment With Russia*, she was deported in 1919, but not before she had become notorious for her writings on feminism and birth control, for inciting a riot in New York City in 1893, and for obstructing the draft during WWI, for which she served two years in prison. FTP, name this famous anarchist.

Answer: Emma *GOLDMAN*

T21. This composer of the opera *Der gedultige Socrates* and the oratorio *Der Tod Jesu* once remarked that "a proper composer should be able to set a placard to music." He backed up this claim with his prolific output, including the innumerable concerti, suites, quartets, and sonatas collected in *Musique de table*, and with the number of musical positions which he held, including musical director at Hamburg. In fact, this godfather of CPE Bach was so busy that he was forced to turn down the position of organist for Leipzig's Thomaskirche in favor of JS Bach. FTP, name this prolific Baroque composer known for his opera *Pimpinone* and the cantata *Ino*.

Answer: Georg Philipp *TELEMANN*

T22. This architect of the Maine Capitol at Augusta helped promote the voyage of the *Columbia*, the first American ship to circumnavigate the globe. After travelling throughout Europe he became acquainted with Robert Adam, later introducing the Adam style into the US. In 1817 he succeeded Benjamin Latrobe as architect of the US Capitol and prepared a new design for the Rotunda, but he is perhaps best known for the Connecticut and Massachusetts State Houses. FTP, name this man, America's first professional architect.

Answer: Charles *BULFINCH*

T23. One of this chemist's first achievements was his development of rules correlating ultraviolet spectra with molecular structure, and with Roald Hoffmann he developed the concept of conservation of orbital symmetry. The first to propose the correct biosynthetic pathway to the steroidal hormones in living organisms, this American chemist synthesized a large number of complex molecules, including reserpine, lysergic acid, strychnine, quinine, cholesterol, and chlorophyll, and in collaboration with Albert Eschenmoser he synthesized B12. FTP, name this winner of the Nobel Prize in Chemistry in 1965.

Answer: Robert \_WOODWARD\_

T24. This author's last major work, the satirical fable \_Kappa\_, revealed the despair induced by his explorations of the dark side of the human spirit, a despair which can also be seen in his autobiographical works \_A Fool's Life\_ and \_Cogwheels\_. Before his suicide in 1927, this author penned numerous short stories based upon medieval Japanese tales, the best known of which are \_In a Grove\_ and \_Rashomon\_. FTP, identify this author, the namesake of a literary prize for aspiring Japanese writers.

Answer: \_AKUTAGAWA\_ Ryunosuke

T25. This man's first published papers were in the field of medicine, and he served as court physician to Madame de Pompadour and Louis XV before turning to economics in his 60s. His economic ideas, which were influenced by his medical experience, included the conviction that only the farm adds to a nation's wealth, the development of the assumption of economic equilibrium, and his analysis of capital as a stock of wealth, ideas which were collected in his major publication, 1758's \_Tableau Economique\_. FTP, name this French economist, the leader of the physiocrats.

Answer: Francois \_QUESNAY\_

1999 Terrapin Invitational Tournament

Questions by Kelly McKenzie

BONUSES (All worth 30 points)

B1. For the stated number of points, identify these Roman festivals from descriptions.

1. Celebrated at the winter solstice, this festival featured the closure of shops, schools, and courts, the interruption of war, and legalized gambling. Masters waited on their slaves, and a mock king was chosen and ruled for a week. Many features survive in the Christmas festival. Name it for 5 points.

Answer: SATURNALIA

2. Held on February 15, it began with a sacrifice of goats and a dog in the namesake cave on the Palatine where the she-wolf had suckled Romulus and Remus. Men dressed only in the skins of the slain goats then ran around the Palatine striking with goat thongs women wishing to conceive. Name it FTP.

Answer: LUPERCALIA

3. This movable feast was celebrated in February by the curiae. Involving a simple meal at the meeting place of each curia, it also featured a Feast of Fools where citizens who had forgotten the curia to which they belonged were able to take part.

Answer: FORNACALIA (or Festival of Ovens)

B2. 30-20-10 Name the mathematician.

30) This mathematician originated the incorrectly attributed Sterling's formula, and used the formula to derive the normal frequency curve as an approximation of the binomial law. A French Huguenot who was arrested at age 18 upon the revocation of the Edict of Nantes, he expanded his paper "De mensura sortis" into The Doctrine of Chances.

20) The first to use the probability integral in which the integrand is the exponential of a negative quadratic, he is also known as the author of 1730's "Analytical Miscellany".

10) His formula, quantity cosine x plus i sine x quantity closed to the nth power equals cosine nx plus i sine nx, revolutionized the study of analytical trigonometry.

Answer: Abraham de MOIVRE

B3. FTP each, name these characters from Shakespeare's Troilus and Cressida.

1. Cressida is a Trojan woman whose father has defected to the Greeks. She pledges her love to Troilus but, after her father demands Cressida's presence in the Greek camp, she switches her affections to this Greek soldier who is sent to escort her.

Answer: DIOMEDES

2. This deformed Greek's main role is to comment wryly on the actions of the other characters.

Answer: THERSITES

3. This character is the bawdy go-between for Troilus and Cressida, and enjoys watching the degrading behavior of the characters in the play.

Answer: PANDARUS

B4. Yes, there is more than one important Behaviorist. FTP each, name these psychologists who are not John B. Watson.

1. Author of Science and Human Behavior, The Shaping of a Behaviorist, and Walden Two, this psychologist is known for his system of operant conditioning, which sought to establish the laws of behavior.

Answer: Burrhus F. SKINNER

2. This author of Brain Mechanisms and Intelligence is famous for a series of experiments on cerebral functioning conducted while at the University of Chicago, and for his principles of mass action and equipotentiality.

Answer: Karl S. LASHLEY

3. This psychologist is best known for developing purposive behaviorism, which treats psychological data from a molar behaviorist point of view. He is the author of Purposive Behavior in Animals and Men and Drives Toward War.

Answer: Edward TOLMAN



B5. FTP each, name these American artists from works.

1. "The Oxbow," "In the Catskills"

Answer: Thomas COLE

2. "Kindred Spirits"

Answer: Asher B. DURAND

3. "Niagara," "Heart of the Andes"

Answer: Frederick CHURCH

B6. For the stated number of points, name these famous "Wobblies".

1. After this former head of the Western Federation of Miners was acquitted of the bombing murder of an ex-governor of Idaho, his faction dominated the IWW. His ardent militancy later got him kicked off the executive board of the Socialist Party, and in 1917 he was convicted of sedition for his opposition to WWI. Name him for 5 points.

Answer: William "Big Bill" HAYWOOD

2. A founder of the IWW, this Irish-born labor activist lost her family in an epidemic in 1867 and thereafter devoted herself to the cause of labor. Name this "mother" FTP.

Answer: Mary Harris "Mother" JONES

3. This IWW leader gained fame for his songs popularizing the union cause. In 1914 he was convicted of murdering a Salt Lake City shopkeeper. Despite contradictory evidence, lack of motive, and appeals on his behalf by Woodrow Wilson and the Swedish government, he was executed in 1915.

Answer: Joe HILL

B7. Answer the following about a relativistic effect, for the stated number of points.

1. This is the effect in which light rays are bent by the gravitational field of a massive object, such as a galaxy or black hole. Name it FTP.

Answer: gravitational LENSing (prompt on gravitational deflection)

2. One result of gravitational lensing is the formation of multiple images of these objects with high redshifts, which are probably luminous active nuclei of distant galaxies. Identify these objects for 5 points.

Answer: QUASARS (or quasistellar objects or QSOs)

3. In this example of a gravitational lens effect, four images of a background object are formed. Originally used to describe the Huchra lens, whose four quasar images are arranged symmetrically about the image of a foreground galaxy, its name is now used for any similar example. For 15 points, identify this effect, named for a really famous physicist.

Answer: EINSTEIN CROSS

B8. For the stated number of points, identify these figures associated with the German Enlightenment.

1. This dramatist is credited with bringing about the birth of classical German comedy with the play Minna von Barnhelm. He is also known for the tragedy Emilia Galotti, the dramatic poem Nathan the Wise and the treatise The Education of the Human Race. Name him FTP.

Answer: Gotthold Ephraim LESSING

2. Lessing's character Nathan the Wise was based upon this German philosopher and author of Philosophical Speeches, Letters on Feeling, and Morning Hours. For 5 points, name this "German Socrates", the grandfather of a famous composer.

Answer: Moses MENDELSSOHN

3. This writer and bookseller first came to prominence by defending the works of John Milton against the grammarian Johann Gottsched. For 15 points, name this writer remembered for his participation in the so-called "Correspondence About Tragedy" with Lessing and Mendelssohn, and his satire The Joys of Young Werther.

Answer: Friedrich NICOLAI

B9. For the stated number of points, name these three movies which are, without a doubt, the coolest ever produced in the history of US cinema.

1. Patrick Swayze stars as Dalton, a bouncer hired to clean up the Double Deuce Saloon. Costarring Sam Elliott as his ass-kicking mentor Wade Garrett, this film is also notable as the only film for which Jeff Healey has an acting credit. Name it for 5 points.

Answer: ROADHOUSE

2. Sure, "The Sting" won a few Oscars, but the coolest movie in the scam genre is this flick starring James Woods, Lou Gossett Jr., and Bruce Dern, in which an aging boxer and his con-man manager try to outscam a rich, gambling-addicted Georgian.

Answer: DIGGSTOWN

3. If someone asks you to name the coolest movie to take advantage of the post-L. A. Olympics gymnastics hysteria and you say "American Anthem," obviously you never saw this film in which Kurt Thomas travels to the third-world country of Parmistan to fight in the "Game." Should he win, he will be granted one wish, which, naturally, is to have Parmistan install a Star Wars missile site.

Answer: GYMKATA

B10. Name these mountain chains from mountains they contain FTP, or for 5 points if you need the location.

1. 10 points--Mount Toubkal, Mount Chelia, Great Kabylie

5 points--Found in northwestern Africa, they run southeast to northwest through Morocco, Algeria, and Tunisia.

Answer: ATLAS Mountains

2. 10 points--Mount Tebulosmta, Mount Dombay-Ulgen, Mount Aragats, Mount Elbrus

5 points--Lying between the Black and Azov Seas and the Caspian Sea, they are occupied by Russia, Georgia, Azerbaijan, and Armenia.

Answer: CAUCASUS (or Kavkaz Mountains)

3. 10 points--Mount Narodnaya, Mount Sredny Baseg

5 points--Lying in west-central Russia, they form the major physiographic boundary between Europe and Asia.

Answer: URAL Mountains (or Uralsky Khrebet)

B11. FTP each, answer the following about a religious order.

1. This Roman Catholic order was founded by St. Robert of Molesme in 1098. Also known as the White Monks, members eat and work in silence and abstain from meat, fish, and eggs.

Answer: CISTERCIANS

2. This founder of a monastery in Champagne is often credited with reinvigorating the Cistercian order. Often depicted with a beehive, he is best known for having Abelard condemned for heresy.

Answer: St. BERNARD of CLAIRVAUX

3. This is the popular name for Cistercians of the Reformed Observance, an order founded by Armand de Rance in Normandy as a stricter version of the Cistercian order.

Answer: TRAPPIST(s)

B12. FTP each, name the following related items associated with Naziism.

1. This early supporter of Hitler played a vital role in fostering good relations between the Nazi Party and the Bavarian authorities until 1923. The organizer and leader of the SA, his plans to supplant the traditional German army led to his assassination.

Answer: Ernst ROHM

2. This politician became Minister of War in von Papen's government, and succeeded him as Chancellor. He was executed on trumped up charges of treason.

Answer: Kurt von SCHLEICHER

3. Rohm and von Schleicher were both killed during this "night," a purge which sought to crush the political power of the SA, and which resulted in the assassinations of over 100 of Hitler's political opponents on June 30 and July 1, 1934.

Answer: Night of the LONG KNIVES

B13. For 15 points each, name these important 19th century chemists.

1. Above the entrance to this chemist's laboratory was a notice reading "God has ordered all his creation by Weight and Measure." Armed with this conviction, he discovered choral and chloroform, showed that plants absorb minerals from the soil, is considered the founder of agricultural chemistry, and established the first practical chemistry teaching lab at Gissen, Germany.

Answer: Baron Justus von LIEBIG

2. This chemist discovered quinones and calcium carbide, and in 1828 was the first person to synthesize an organic compound from an inorganic compound. With Liebig, he introduced the theory of compound radicals.

Answer: Friedrich WOHLER

B14. FTP each, name these piano pieces by William Schumann.

1. This set of 21 pieces is subtitled "dainty scenes on four notes." Those four notes spell the letters of the hometown of a girl Schumann was in love with at the time, and the work shares its name with overtures by Dvorak and Glazunov.

Answer: CARNIVAL

2. This cycle of piano pieces refers to the eccentric musician in the writings of ETA Hoffmann.

Answer: KREISLERIANA

3. This set of variations, Schumann's opus 1, is dedicated to one of his female friends, and consists of variations on a theme composed of the notes in her name.

Answer: ABEGG variations

B15. FTP each, name these mythological figures slain by Theseus.

1. This thief placed his victims on an iron bed, and fit them to the bed by either stretching or cutting them.

Answer: PROCRUSTES (or Damastes)

2. This robber of Megara forced his victims into the sea, where they were eaten by a giant turtle.

Answer: SCIRON

3. This robber of Corinth attached his victims to two pine trees bent toward each other, until he was killed in the same manner by Theseus.

Answer: SINIS

B16. FTP each, identify these characters from The Grapes of Wrath.

1. This slow-witted second son of the Joads is last seen wandering off down a river when the pressures of the trip to California and his hunger become too much for him to bear.

Answer: NOAH Joad

2. This character is Rose of Sharon's husband, who deserts the Joads after they arrive in California.

Answer: CONNIE Rivers

3. This country preacher makes the trip with the Joads after giving up his ministry. He is killed trying to help the migrant workers strike.

Answer: JIM Casy

B17. Name these US Cabinet departments given their first secretaries FTP, or for 5 if you need more famous secretaries.

1. 10 points--Thomas Ewing

5 points--Harold Ickes, Albert Fall

Answer: INTERIOR

2. 10 points--Norman Colman

5 points--Henry A. Wallace, Mike Espy

Answer: AGRICULTURE

3. 10 points--William Wilson

5 points--Elizabeth Dole, Robert Reich

Answer: LABOR

B18. Name these important works of ancient and medieval philosophy F15P from a description, or FTP if you need the name of the author.

1. 15 points--This circa 1190 work was intended for those intellectuals who were in a state of mental confusion because they believed Greek sciences contradicted religious faith. In it, the author presents Aristotelian philosophy in such a deliberately jumbled and confused manner that only the truly gifted could make sense of it, insuring that a corrupted, watered-down version could not circulate among the uneducated masses.

10 points--Moses Maimonides

Answer: GUIDE to (or for) the PERPLEXED (or Dalalat al-Harin or Moreh Nevukhim)

2. 15 points--This circa 524 work, written while the author was in prison, is a dialogue between the author and a beautiful woman representing Philosophy. The woman answers the contradictions surrounding free will, the existence of evil, and God's omnipotence.

10 points--Boethius

Answer: The CONSOLATION OF PHILOSOPHY (or De consolazione philosophiae)



B19. For the stated number of points, name the following about problems surrounding the construction of a fusion reactor.

1. To work, a self-sustaining fusion reactor must heat the reacting nuclides to the ignition temperature and contain the nuclides long enough for the fusion energy released to exceed the energy required to achieve the ignition temperature. To do so, the product of the density of the fusion-fuel particles and the containing time must, for 15 points, exceed this criterion.

Answer: LAWSON's criterion

2. One way to achieve Lawson's criterion is by magnetic confinement, which utilizes this effect, the magnetic attraction between parallel conductors carrying currents flowing in the same direction. Name this effect FTP.

Answer: PINCH effect

3. Using the pinch effect, a toroidal-shaped reactor called a Tokamak could maintain an enormous temperature by confining this matter using electromagnetic fields. This matter is highly ionized gas in which the number of free electrons is nearly equal to the number of positive ions. Name this type of matter for 5 points.

Answer: PLASMA

B20. For 15 points each, name these island groups.

1. These islands are a group of reefs in the South China Sea located midway between Vietnam and the Philippines. Including Itu Aba, Storm Island, and Pagasa Island, its strategic location had led Vietnam, China, Taiwan, Malaysia, and the Philippines to each claim possession.

Answer: SPRATLY Islands

2. This is a low-lying chain of islands 3 to 20 miles off the coast of northern Europe, extending in an arc from the Netherlands to the Elbe, then turning north along the coast of Schleswig-Holstein and the Jutland Peninsula. Divided into West, East, and North portions, Erskine Childers wrote "The Riddle of the Sands" to bring attention to the possibility of a German invasion of Britain from these islands.

Answer: FRISIAN Islands

B21. FTP each, name the following about a literary movement.

1. This literary movement which sought to purify poetry arose in Spanish America in the late 19th century, and counted among its adherents the poets Jose Silva, Leopoldo Lugones, and Amado Nervo.

Answer: MODERNISMO

2. Some critics cite the publication of this poet's Ismaelillo as the beginning of Modernismo. Name this Cuban author of Versos libres and Versos sencillos.

Answer: Jose MARTI

3. One of the dominant figures of Modernismo was this Nicaraguan poet, whose Azul and Prosas profanas were seminal works of the movement.

Answer: Ruben DARIO (or Felix Ruben Garcia Sarmiento)

B22. The 1917 ballet Parade was certainly interesting in its own right, being scored for typewriter, telegraph tape, airplane propellers, and sirens, but is even more significant for the who's-who list of avant-garde artists who collaborated on its creation. For 5 points each and a bonus 5 for all correct, name them from clues.

1. This composer wrote, among other things, the symphonic drama Socrate.

Answer: Erik SATIE

2. This author, artist, and film director wrote the play Orphee and the novels Les Enfants Terribles and La Machine Infernale.

Answer: Jean COCTEAU

3. This artist painted Les Femmes d'Alger and Three Women at the Fountain.

Answer: Pablo PICASSO

4. This impresario founded the journal "The World of Art" and the Ballet Russes.

Answer: Sergei DIAGHILEV

5. Author of Alcools and Calligrammes, this author wrote the program notes for Parade, marking possibly the first use of the term "surrealism."

Answer: Guillaume APOLLINAIRE (or Wilhelm Apollinaris de Kostrowitzki)

B23. 30-20-10 Name the composer.

30) Among his works are The Peacock Variations and the Dances of Galanta, the latter of which refers to the town in which he spent seven years of his youth.

20) His namesake method of music instruction utilizes the human voice to impart musical knowledge. His most famous work is a nationalist opera based on the superstition that if a statement is followed by a sneeze by one of the hearers, then the statement must be true. Its sections include "Viennese musical clock" and "The battle and defeat of Napoleon."

10) A Hungarian nationalist composer and friend of Bartok, he is best known for Hary Janos.

Answer: Zoltan KODALY

B24. FTP each, name these parts of the inner-ear concerned with balance and movement.

1. This is the chamber from which the cochlea arises in mammals, and bears patches of sensory epithelium necessary for proper balance.

Answer: SACCULUS (or saccul)

2. The semicircular canals arise from this chamber concerned with detecting changes in the direction and speed of movement.

Answer: UTRICULUS (or utricle)

3. This patch of sensory hair cells in the utricle and saccule is embedded in an otolith containing particles of calcium carbonate. Movement of the particles bends the hairs and triggers nerve impulses, giving the brain information about balance and movement.

Answer: MACULA

B25. FTP each, given the description name these poems by Matthew Arnold.

1. This lyric poem, filled with vivid descriptions of the countryside around Oxford, tells of a student who gives up his academic life to wander the forests in search of wisdom.

Answer: The SCHOLAR GIPSY

2. This poem portrays a Greek philosopher who can no longer feel joy and who considers himself useless, and consequently plans to commit suicide by leaping into a crater.

Answer: EMPEDOCLES ON ETNA

3. Considered one of Arnold's finest poems, this 24 stanza poem eulogizes his friend, the poet Arthur Hugh Clough, recalling the Oxford countryside the two explored as students.

Answer: THYRSIS