

11/14/02
4/25/05

Beaver Bonspiel IX Round 15
Packet by Mike Usher (II)

Tossups

1. The first opens with a horn fanfare also used in the composer's aria *Grosser Herr und Starker Konig*, continues with a solo for piccolo violin, and ends with a Polacca. The penultimate was probably the last written, since it uses the modern flute rather than the recorder and heavily emphasizes the harpsichord, while the last contains an easy part for viola da gamba probably written with Prince Leopold of Anhalt-Cothen in mind. FTP, name this series of six concerti by Bach written for the margrave of their namesake city.

Answer: Brandenburg Concertos

2. The capital of Burgundy in the early 5th century until its destruction by the Huns, it is purportedly home to the oldest Jewish community in Germany. It was here that Maximilian I proclaimed the "perpetual public peace" in 1495, and the 1122 agreement between Henry V and Calixtus II which settled the Investiture Controversy is known as *its* Concordat. FTP, what is this unappetizingly-named site of the 1521 meeting where the words, "Here I stand; I can do no other" were purportedly said by Martin Luther?

Answer: Worms

3. The protagonist's friends during her youth include railroad brakeman Ray Kennedy, mandolinist Spanish Johnny, and Dr. Howard Archie, each of whom is stifled by life in Moonstone, Colorado. She then travels to Chicago, where she is instructed by Madison Bowers and sees the titular Jules Breton painting, and is sent by Fred Ottenburg to Panther Canyon, where she has an epiphany about the relation of personal ties to her art. FTP, name this book about opera diva Thea Kronberg, the third novel of Willa Cather.

Answer: The Song of the Lark

4. Pilloried by liberals for his insistence on installing crucifixes in public schools, he moved to the center by de-emphasizing immigration issues and agreeing not to try to overturn his country's gay marriage law after he was chosen over Angela Merkel as his party's candidate in December. Running largely on the strength of his state's economy, he lost a slim lead in the polls thanks partly to his unwillingness to categorically oppose an American war against Iraq. FTP, name this leader of the Christian Social Union who almost took the position of Chancellor from Gerhard Schroder in Germany's recent elections.

Answer: Edmund Stoiber

5. While the males of most species in this class of animals copulate using appendages called gonopods, one species instead conveys its sperm to the female using a fecal pellet. One of its families, Glomeridae, secretes a chemical similar to one found in palms to ward off birds, and most species have dorsal plates covering their diplosomites, of which all but the first four contain two pairs of legs. FTP, name this class of heavily segmented arthropods whose members usually have more legs than centipedes.

Answer: millipedes (or diplopoda)

6. Like her second husband Daniel Patterson, she had a longstanding interest in homeopathy, and her views were influenced by Phineas Quimby, who used hypnosis and suggestion to heal her spinal problems. She later expounded her system to such disciples as Hiram Crafts, Richard Kennedy, and her third husband, and she founded the Massachusetts Metaphysical College in 1881 and the Mother Church in 1895. FTP, name this founder of the First Church of Christ, Scientist.

Answer: Mary Baker Eddy

7. The artist painted three works sometimes given this title, two of which are aquatint prints which show the influence of an 1890 Paris exhibition of Japanese art. In the best known one, the elevated vantage point draws the viewer's eyes down to a red floral tile and a white pitcher, while the two figures, one dressed in a long striped dress and the other with only a towel around her waist, also look down at the latter's bare foot. FTP, name this Mary Cassatt work in which a mother washes her daughter's feet in a basin.

Answer: The (Child's) Bath

8. In one translation, Herr Schaaf claims that he won a prize for lechery as a university student and confuses Lizaveta by announcing that "Hairs are trumpery" during the card game with which the action begins. 57 year-old virgin Afanasy Bolshintsov offers a troika to Ignaty Shpigelsky for persuading Vera to marry him, and a rivalry over Alexei Belyayev leads Natalya Islayeva to encourage the match. FTP, name this play in which Natalya is loved by both Michel Rakitin and the tutor who spends the titular amount of time at her estate, based partly on the relationship between Pauline Viardot and its author Ivan Turgenev.

Answer: *A Month in the Country (Mesyats v Derevne)*

9. This work declares that "nothing has done so much harm to the liberal cause as the wooden insistence" on "the principle of laissez faire," and compares the ideal government's treatment of the economy to a gardener's treatment of a plant. However, it is considered a classic of libertarianism for its declaration that a centrally planned economy will inevitably result in totalitarianism, as seen in both the Soviet Union and Nazi Germany. FTP, name this 1944 book in which Friedrich Hayek claimed that socialism leads to the titular path.

Answer: *The Road to Serfdom*

10. Because the enthalpy is constant during the process that causes this effect, the effect does not occur in ideal gases, but it does occur in van der Waals gases because the correction to the enthalpy changes sign when the temperature falls below the inversion temperature. Consequently, for gases other than hydrogen and helium at room temperature, forcing the gas into a region of lower pressure results in work being done against the intermolecular forces of the gas. FTP, name this effect in which the expansion of a gas causes it to cool.

Answer: Joule-Thomson effect

11. It briefly regained strength in the years following Toktamysh's overthrow of Mamai, but when Tamerlane destroyed Toktamysh's capital of Sarai Berke it returned to the downward trajectory that began with its loss at the Battle of Kulikovo in 1380. Consisting of territory granted to Juchi, its greatest leader was Öz Beg, who continued the expansionist tradition begun by Batu, who sacked Kiev. FTP, name this western branch of the Mongol empire.

Answer: Golden Horde (or Kipchak Khanate or Ulus Juchi)

12. It begins with the narrator being visited in his sleep by a woman who condemns simony and declares that "Chastity without charity... / Is as useless as a lamp that no light is in," after which the narrator sees two attempts to marry off Meed the maiden, first to Falsehood and then to Conscience. The title character, whose son is named "Suffer-thy-sovereigns-to-have-their-will-and-judge-them-not,-for-if-thou-do- thou-shalt-dearly-pay-for-it," appears in Passus VI in order to guide personifications of the Seven Deadly Sins to Saint Truth. FTP, name this agriculturally themed alliterative allegory attributed to William Langland.

Answer: *The Vision of William Concerning Piers the Plowman*

13. Calderas are often formed after a volcano erupts an especially large amount of this rock, whose color ranges from black when it forms from basalt to white when it forms from rhyolite. In the laboratory it can be created by heating obsidian fragments until they fuse, but a much larger amount was created by the eruption of Krakatoa, after which the surface of the surrounding sea was covered with it in layers up to five feet high. FTP, name this porous rock used as an abrasive which results when dissolved gases escape from rapidly cooling lava.

Answer: pumice

14. Pepper is an island native who, when told by Tanya that she is old enough to be his mother, exclaims "Well, then call me Oedipus," and who exclaims the work's title when the title character asks him to prepare the champagne and Ouzo for the day's festivities. In July and August of 1979, the Australian author of *A Bloke and a Boat in Botswana* and two other men had sex with the lead singer of Donna and the Dynamos, making all three of them equally plausible candidates for the privilege of giving Sophie away at her wedding. FTP, name this hit musical whose songs include "I Have a Dream," "Super Trouper," and 20 others by Abba.

Answer: *Mamma Mia!*

15. He was the first person not related to Henry Ford to be the President of Ford Motor Company, and he later spent 13 years as president of the World Bank. The author of *Blundering into Disaster* and the much-publicized 1995 memoir *In Retrospect*, this man, with middle name Strange, commissioned the Pentagon Papers and lost influence in the administration after coming out in opposition to continued bombing in North Vietnam. FTP, name this man who had earlier supported the Vietnam War as Secretary of Defense under Kennedy and Johnson.

Answer: Robert Strange McNamara

16. He impulsively visits his stepmother Tante Taube in Chicago, where he considers killing his ex-wife and her lover but instead spends the evening with Lucas Asphalter, who is recovering from the death of his monkey. He then meets his daughter June, who allays his fears that she is being mistreated by Valentine Gerschbach, and gets into a car accident, after which he returns to his lover Ramona in the Berkshires. FTP, name this Canadian Jewish professor, the subject of a novel by Saul Bellow.

Answer: Moses Herzog

17. Counseled by Brhaspati in his war against the titans, he had to pay homage to Krishna after Krishna protected his former worshippers under Mount Govardhana, but he was successful in his fight against Virtra to cause the monsoon to break. The father of Arjuna, his body bears a thousand marks that resemble vulvas, and he is often depicted riding on Airavata, a white elephant. FTP, name this chief Vedic god of ancient India, whose status was reduced to that of rain god after the ascent of the Trimurti.

Answer Indra

18. This theory is obtained by incorporating a collection of spinor charges whose anticommutators are combinations of translation operators, and its advantages frequently include eliminating the need for renormalization. When the spinor charges act on a particle state they modify its helicity by one-half, implying a correspondence between bosons and fermions which has led to the prediction of such particles as selectrons and photinos. FTP, name this theory which postulates the largest symmetry compatible with quantum field theory.

Answer: supersymmetry

19. This country contains the Maloti Mountains, in which lies the source of the Tugela River, as well as Mount Ntlenyana, which is the highest point in Africa south of Mount Kilimanjaro. It gained independence in 1964 under King Moshoeshoe II, and Chief Leabua Jonathan was prime minister for 21 years, until his policy of giving refuge to members of the ANC resulted in a damaging economic blockade. FTP, name this country which is dependent on and completely surrounded by South Africa, most of whose residents speak Sesotho.

Answer: Lesotho [le-SU-tu]

20. The second man to bear this name was a chief of the Tinta region who was forced to watch the execution of his wife and sons and then mutilated, drawn, quartered, and beheaded in March 1781, having incited a major rebellion the previous year by executing corregidor Antonio Arriaga. His ancestor and namesake was the son of Manco Capac who until his 1571 execution served as the last ruler of the remnants of the Inca empire. FTP, give this name, adopted by a Peruvian revolutionary movement and partially shared by a slain rap star.

Answer: Tupac Amaru

21. It asserts that the soul is divided into the *anima*, spread throughout the body, and the *animus*, localized in the breast, and that the gods exist only to provide man with examples of the ideal life rather than to manipulate the world. It explains free will through the indeterminate swerves of the infinitely many atoms that comprise the universe, and urges its readers to use philosophy to overcome the fear of death and thus maximize their pleasure. FTP, name this long poem in support of Epicurean doctrines, written by Lucretius.

Answer: *De Rerum Natura (On the Nature of Things)*

22. The designer of the eight circular glass art galleries at the Dumbarton Oaks library, his collaborations with John Burgee include the Chippendale-topped AT&T headquarters, a significant departure from the

rectilinear style of his "Glass House" and from the values expressed in the essay that he wrote with Henry-Russell Hitchcock which gave the International Style its name. Sharing his name with a Berkeley anti-Darwinist, FTP, who is this architect best known for collaborating with Ludwig Mies van der Rohe on the Seagram Building?

Answer: Philip Johnson

23. His chancellor of the exchequer Stafford Cripps administered a program of economic austerity, and his government implemented several measures that had been advocated by William Beveridge, including the creation of a National Health Service. He lost the prime minstership six months after the resignations of Aneurin Bevan and Harold Wilson, being replaced by the same man whose government he surprisingly ended six years earlier. FTP, name this Labour Party leader who oversaw the independence of India after replacing Winston Churchill.

Answer: Clement Attlee

24. Along with Roger Lewin, he argued that *Australopithecus africanus*, *Australopithecus boisei*, and *Homo habilis* all coexisted 3 million years ago in the books *Origins* and *People of the Lake*. After losing both legs in a plane accident, he formed the Safina political party, though he is less known for his political activities than for his work in the Omo valley and at the Koobi Fora site near Lake Turkana. FTP, name this Nairobi-born anthropologist, the son of Mary and Louis.

Answer: Richard Leakey

Bonus Questions

1. Name these leaders of separatist movements in Africa, FTP each:

a) With covert aid from Belgium, this man announced the secession of Katanga from Congo (Kinshasa) in 1960 and served as president for three years before being defeated by a UN coalition.

Answer: Moise-Kapenda Tshombe

b) This man formed the guerrilla group UNITA in 1966, and fought off and on first against the Portuguese colonial rulers and later against the Angolan government until being killed by government troops in February 2002.

Answer: Jonas Savimbi

c) This secretary-general of the Eritrean People's Liberation Front became his country's first president upon its independence from Ethiopia in 1993.

Answer: Isaias Afwerki

2. Name these major novels of the 20th century written in German, FTP each:

a) In this novel, Hans Castorp visits his cousin Joachim Ziemssen in a tuberculosis sanatorium, and ends up staying there for seven years before leaving at the start of World War I.

Answer: *The Magic Mountain (Der Zauberberg)*

b) This vast unfinished Robert Musil novel set in pre-World War I Austria centers on its scholarly title character, Ulrich.

Answer: *The Man Without Qualities (Der Mann ohne Eigenschaften)*

c) This most famous work of Hermann Broch presents the last 18 hours of the life of its title character.

Answer: *The Death of Vergil (Der Tod des Vergil)*

3. Name the following directors of really long films, FTP each:

a) This French New Wave director who recently released *Va Savoir* made his name in the 1960s with the four-hour *L'Amour Fou* and the 13-hour *Out 1: Noli Tangere*.

Answer: Jacques Rivette

b) This Japanese director who had been a POW during World War II criticized war in his 9 and a half hour *The Human Condition*. He shares his family name with a diminutive champion hot dog eater.

Answer: Kobayashi Masaki (name order can be reversed)

c) The cinematic efforts of this famous American artist include *Empire*, in which the camera is fixed on the Empire State Building for eight hours, and *Four Stars*, which is also known as *The Twenty-Five Hour Movie*.

Answer: Andy Warhol

4. Name the following religious sects that have practices involving nudity, FTP each:

a) Corpses of the adherents of this religion are exposed naked on a grating in a "tower of silence," where their bones are picked clean by vultures. They then fall into a pit, in compliance with the injunction in the *Zend Avesta* that a corpse should not come into contact with either fire or earth.

Answer: Zoroastrianism

b) This sect of Jainism, in opposition to Shvetambara, rejects property ownership to the point of insisting that its ascetics wear no clothes.

Answer: Digambara (accept sky-clad)

c) The Sons of Freedom, a faction of this Russian peasant sect whose members Leo Tolstoy helped emigrate to Canada, show their contempt for material goods by committing arson and having nudist protest parades.

Answer: Dukhobors (accept also Spirit-Wrestlers, Christian Community of Universal Brotherhood, or Union of Spiritual Communities of Christ)

5. Name these things from classical mechanics named for 18th and 19th century Frenchmen, FTP each:

a) Considered an alternative form of Newton's second law, this principle allows one to treat a moving body as though it were at rest by introducing a fictitious "inertial force." It is named for a major contributor to the *Encyclopedie*.

Answer: d'Alembert's principle

b) This function is given by the kinetic energy of a system minus the potential energy. Physical systems evolve along whichever path minimizes the integral of this quantity.

Answer: Lagrangian

c) This theorem states that the volume of any region in position-momentum phase space is constant in time for any system obeying the laws of classical mechanics.

Answer: Liouville's theorem

6. Name the following cultures that have been the subjects of noted anthropological studies, FTP each:

a) These violent slash-and-burn agriculturalists in southern Venezuela and northern Brazil were the subject of a now-controversial book by Napoleon Chagnon whose title referred to them as "the Fierce People."

Answer: Yanomami (or "Yanomamo" or "Yanoamo" or other reasonable variants)

b) Most of Bronislaw Malinowski's most famous work, including his analysis of the Kula ring in *Argonauts of the Western Pacific*, was done among the inhabitants of these islands in Melanesia.

Answer: Trobriand Islands (or Kiriwina Islands)

c) Much of Franz Boas' most important work dealt with this tribe of British Columbia, which is known for its elaborate development of the potlatch.

Answer: Kwakiutl

7. Name these Native American chiefs who fought against the U.S., FTP each:

a) This Oglala chief led the successful war against the government's construction of the Bozeman Trail, but angered some of his followers by agreeing to be settled on a reservation after the trail was abandoned.

Answer: Red Cloud (Mahpiua Luta)

b) This leader of a faction of Sauk and Fox Indians was the namesake of an 1832 war with the U.S. over lands in the Rock River Valley that ended in the massacre at the Bad Axe River in Wisconsin.

Answer: Black Hawk (Ma-ka-tai-me-she-kia-kiak)

c) This son-in-law of Mangas Coloradas avenged the 1861 hanging of five of his fellow Apache chiefs by leading raids against whites from the Dragoon Mountains for 10 years.

Answer: Cochise

8. Answer the following about the career of Seth Green, FTP each:

a) Green's most famous movie role is probably as this character, who has appeared in a series of films released in 1997, 1999, and 2002.

Answer: Scott Evil

b) Green recently starred as the roommate of the title puppet of this show, which Fox did not renew for the fall 2002 season.

Answer: Greg the Bunny

- c) Green has twice played the boyfriend of characters portrayed by this actress, once when they starred in *My Stepmother is an Alien* when they were 13 and again when Green took the TV role of Daniel Osbourne.

Answer: Alyson Hannigan

9. Answer the following about two classic Chinese novels, FTP each:

- a) This 14th century novel about the period following the fall of the Han dynasty features such historical characters as Tsao Tsao and Chu-ko Liang.

Answer: The Romance of the Three Kingdoms (*San Kuo chih yen-i*)

- b) This man is traditionally held to be the author of *The Romance of the Three Kingdoms*.

Answer: Lo Kuan-Chung

- c) Lo is also sometimes named as an author of this picaresque-style novel about a group of 108 bandits who hide out in the swamps near Mount Liang.

Answer: Water Margin (*Shui-hu chuan*; also accept All Men Are Brothers or Outlaws of the Marsh)

10. Name these Iranian dynasties, FTP each:

- a) This dynasty ruled Iran from 1502 to 1736 and united the country around the new state religion of Shi'ite Islam.

Answer: Safavid

- b) In 1796 Agha Muhammad Khan reunified Iran as the first shah of the dynasty, which kept power despite European colonial efforts until shortly after World War I.

Answer: Qajar

- c) This dynasty's two shahs, Reza Shah and Mohammed Reza Shah, ruled from 1925 to 1979 and enacted liberal reforms that contributed to its downfall at the hands of Ayatollah Khomeini.

Answer: Pahlavi

11. Name these biologists who probably falsified some of their experiments, FTP each:

- a) This discoverer of the laws of segregation and independent assortment obtained results in his experiments with pea plants that fit so closely with his theories that he is generally believed to have fudged his numbers.

Answer: Gregor Mendel

- b) This biologist did experiments purporting to show that white peppered moths were more likely to die if exposed to dark vegetation, and vice versa. Though his work was treated as a textbook demonstration of natural selection in action, he seems to have fabricated his results.

Answer: Bernard Kettlewell

- c) After an accident in the circumcision of Bruce Reimer, this ardent believer in nurture over nature in gender identity turned Reimer into a girl. For years, he published papers claiming that Reimer led a normal happy life as a female, when in fact Reimer long identified as male and has changed his sex back.

Answer: John Money

12. Name these contemporary Indian-American authors, FTP each:

- a) This author is known mainly for his 1300 page novel *A Suitable Boy* set in early 1950's India and for his *The Golden Gate*, a novel about Bay Area yuppies written in the style of *Eugene Onegin*.

Answer: Vikram Seth

- b) This woman recently won a Pulitzer for her exploration of the lives of Indian immigrants in Boston in the story collection *Interpreter of Maladies*.

Answer: Jhumpa Lahiri

- c) This author of the novels *Wife* and *The Holder of the World* and the award-winning short story collection *The Middleman and Other Stories* is currently a professor at Berkeley, where she has drawn fire for her assimilationist views on immigration.

Answer: Bharati Mukherjee

13. Name these cities of New Zealand, FTP each:

- a) Its capital, located at the southern tip of North Island.

Answer: Wellington

b) The largest city on South Island, known as the "Garden City of the Plains" and named for the Oxford college which its founder John Godley attended.

Answer: Christchurch

c) This southernmost city of South Island lies directly across Foveaux Strait from Stewart Island.

Answer: Invercargill

14. Name these women who studied the structures of biologically-important molecules, FTP each:

a) This collaborator with Maurice Wilkins carried out the X-ray diffraction studies that were partially responsible for Watson and Crick's discovery of the double helix structure of DNA.

Answer: Rosalind Franklin

b) This winner of the 1964 Nobel in Chemistry took X-ray diffraction photographs of vitamin B12 and insulin which enabled her to completely determine the three-dimensional atomic arrangements of those molecules.

Answer: Dorothy Crowfoot Hodgkin

c) This scientist investigated the structure of hemoglobin and its impact on sickle-cell anemia late in her career, but is better known for leading the 1957 experiment which confirmed Yang and Lee's speculation that parity is not conserved in weak nuclear interactions.

Answer: Chien-shiung Wu

15. He was severely admonished by the Senate Ethics Committee in July for receiving illegal contributions in his 1996 campaign. FTP each:

a) Name this New Jersey senator, who pulled out of the 2002 Senate campaign on September 30.

Answer: Robert Torricelli

b) Name Torricelli's main illicit contributor, who is currently serving time for giving him nearly \$90,000 as well as a Rolex watch, 12 Italian suits, and a grandfather clock.

Answer: David Chang

c) Name the 78 year-old former senator who is taking Torricelli's place as the Democratic nominee for Torricelli's seat.

Answer: Frank Lautenberg

16. Name these Scottish novelists:

a) F5P, this author of such works as *The Heart of Midlothian* and *Rob Roy* is considered an inventor of the historical novel.

Answer: Sir Walter Scott

b) FTP, this author wrote novels about Scottish rural life such as *The Annals of the Parish*, which contains the first use of the word "utilitarianism." He shares his name with the hero of a 1957 political-philosophical novel.

Answer: John Galt

c) F15P, this writer portrayed life in a small Scottish town in the four *Chronicles of Carlingford*, the best known of which is *Miss Marjoribanks*.

Answer: Margaret Oliphant

17. Name these Canadian political parties, FTP each:

a) Forming in the mid-19th century out of several factions, including the Clear Grits movement, this party has been led by such noted Prime Ministers as Laurier, Mackenzie King, Pearson, Trudeau, and Chrétien.

Answer: Liberal Party

b) Led under its previous name by Canada's first PM John Macdonald, this party led the government under Brian Mulroney and Kim Campbell from 1984 to 1993 but lost all but two of its seats in the 1993 elections.

Answer: Progressive Conservative Party

c) This minor party, named after an economic theory of Clifford Douglas, led the governments of Alberta and British Columbia for a number of years in the mid-20th century.

Answer: Social Credit Party

18. Proposed in a 1967 letter to Andre Weil by its namesake, it asserts a correspondence between Galois representations and automorphic forms. FTP each:

a) Name this conjecture, work on which has earned Fields Medals in 1990 for Vladimir Drinfeld and in

2002 for Laurent Lafforgue.

Answer: (geometric) Langlands conjecture (or correspondence, etc.)

b) The Langlands correspondence would imply this conjecture named for two Japanese mathematicians, which states that all rational elliptic curves are modular forms and was proven in full generality in 1999 by Breuil, Conrad, Diamond, and Taylor.

Answer: Taniyama-Shimura-Weil conjecture (or theorem) (any permutation of the names is acceptable)

c) Andrew Wiles' proof of certain special cases of the Taniyama-Shimura conjecture in the mid-1990's yielded a celebrated proof of this centuries-old conjecture in number theory.

Answer: Fermat's Last Theorem

19. Name these works of Benjamin Britten, FTP each:

a) Britten's largest choral work is this piece, whose text uses the poems of Wilfred Owen.

Answer: War Requiem

b) This work, also known as *Variations and Fugues on a theme of Henry Purcell*, highlights several different instruments and is probably Britten's most famous instrumental composition.

Answer: Young Person's Guide to the Orchestra

c) Britten composed this opera with a Spenserian title for the coronation of Queen Elizabeth II.

Answer: Gloriana

20. Answer the following about the Hebrew bible, FTP each:

a) This third division of the Hebrew bible, after the Torah and the Nevi'im, consists of 13 books including Psalms, Job, Ecclesiastes, Daniel, and Nehemiah.

Answer: Ketuvim (prompt on "Writings;" accept "Hagiographa")

b) Read at the beginning of the seder, this special book contains the story of Exodus and supplies answers to the questions traditionally asked by children about Passover.

Answer: Haggadah

c) This version of the Hebrew bible was meticulously assembled between the 6th and 10th centuries C.E. in Babylonia and Palestine and is universally accepted as the authentic version.

Answer: Masoretic text (or masoreth)

21. Name these Greek military leaders, FTP each:

a) This former tyrant of the Thracian principality of Cheronese persuaded the Athenians to immediately attack the Persians at Marathon and commanded the Athenian army in the battle.

Answer: Miltiades the Younger

b) This king of Sparta led the Greeks at Thermopylae, with his 300-man royal guard bravely fighting to the last man.

Answer: Leonidas

c) This Theban statesman led the Boeotian army to victory over Sparta at the Battle of Leuctra thanks to a tactical innovation involving an oblique formation which let the Boeotians crush the Spartan army at its strongest point.

Answer: Epaminondas

22. Identify the first phoneme of the following words as being an affricate, a fricative, a stop, a sibilant, or a sonorant, 5-10-20-30:

a) liquid, move

Answer: sonorant

b) bar, dent

Answer: stop

c) chair, jaw

Answer: affricate

d) vacuum, zebra

Answer: fricative

23. Identify the following people noted for their letter-writing, FTP each:

a) More than 3,000 of this man's letters survive, most being addressed to British diplomat Horace Mann,

with whom he corresponded for 45 years after their first and only meeting. Quiz bowl players know him better as the author of *Castle of Otranto*.

Answer: Horace Walpole

b) Walpole was inspired in his assiduous letter-writing by this 17th-century French noblewoman, who wrote 1700 letters to her daughter Françoise Marguerite, mostly in the first seven years after Françoise left to live with her husband.

Answer: Madame Marie de Rabutin-Chantal, Marquise de Sevigne

c) This author, famous for such works as the 10 volume novel *Jean-Christophe* and for biographies of Beethoven, Michelangelo, and Tolstoy, is also noted for his correspondence with luminaries as diverse as Einstein, Russell, Schweitzer, and Tagore.

Answer: Romain Rolland

24. Identify the following types of sedimentary rock, FTP each:

a) This is the term given to the sedimentary rock usually deposited by wind which is composed of small grains loosely cemented by calcium carbonate. Such rock occupies a large namesake plateau near the Huang Ho in China.

Answer: loess

b) This type of rock is composed of fragments larger than two millimeters which are angular, in contrast to conglomerate, whose fragments are rounded.

Answer: breccia

c) The most abundant type of sedimentary rock, this rock consists of silt- and clay-size particles and metamorphoses into slate.

Answer: shale

25. Name these creator gods, FTP each:

a) This most important god of the Inca created the sun and the moon on Lake Titicaca before walking away on the Pacific and promising to eventually return.

Answer: Viracocha

b) This god, who expelled Quetzalcoatl from Tula, was the creator-god who ruled over "Jaguar-Sun," the first of the four worlds that the Aztecs believed preceded the present one.

Answer: Tezcatlipoca

c) This Babylonian god killed Tiamat and cut her in two, using half of her to create the heavens and the other half to create earth.

Answer: Marduk