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BERRY A ROUND FOR 1998 MLK TOURNAMENT

1. Without them, beta radioactivity would defy the laws of conservation of momentum and angular momentum--so said Wolfgang Pauli in 1933. It was not until 1956, that they were actually detected. FTP, what are these uncharged particles emitted with positrons during positive beta decay?

ANS. neutrino

2. His main attributes were his Petasus and his Alipes. He was the psychopomp of the Greek gods, conducting humans between heavens, earth, and Hades. He was also god of prudence, cunning, and peaceable commerce. By the way, the Petasus and the Alipes were, respectively, his winged travelling hat and winged sandals. FTP, identify this Greek god, who also carried the Caduceus.

ANS. Hermes

3. The light sensitive plate was prepared by bringing iodine in contact with a plat of silver. After exposure, the plate took on a positive image by development in mercury vapor. FTP, what was this photographic process developed in 1824?

ANS. Daguerreotype

4. Perhaps his most shocking act to ancient Romans was to designate his sister Drusilla as his heir to the throne. She died, however, and he began going mad. His next most shocking act was to designate Incitatus, his horse, as a consul. FTP, name this Roman emperor, successor and nephew of Tiberius.

ANS. Caligula or Gaius

5. Unbeknownst to most of his friends, he carried on a 15 year affair with Ellen Ternan, who he bequeathed 1000 pounds in his will. On June 8, 1870 while dining with his sister-in-law Georgina Hogarth, he suffered a cerebral stroke and died at age 58, without being able to finish his new book, The Mystery of Edwin Drood. FTP, name this beloved English novelist of The Pickwick Papers.

ANS. Charles Dickens

6. In mechanics, this term refers to a bobbing or nodding up-and-down motion of a spinning rigid body, such as a top, as it precesses about its vertical axis. In astronomy it refers to irregularities in the precessional motion of the equinoxes caused by the varying torque applied to the Earth by the Sun and Moon. FTP, what is this common term?

ANS. nutation X

7. T.S. Eliot's The Wasteland begins with an epigrammatic reference to the holiday named in this man's honor. He was a devout Yorkshire Catholic who believed that James I had treated Catholics harshly. He and his associates hid barrels of gunpowder in the vaults under the Houses of Parliament and on November 5, 1605, they planned to fire them. FTP, name this man associated with the Gunpowder Plot.

ANS. Guy Fawkes

8. This psychologist is best known for his early 1970's studies that sought to answer why people would often be unbelievably cruel. He had subjects play the "teacher" in a learning pair and required them to deliver shocks of greater and greater intensity when prompted by a researcher. FTP, who was this pioneering American social psychologist?

ANS. Stanley Milgram

9. This American novelist was educated at Hollins College and published her first novel, The Day the Dogbushes Bloomed, in 1968. She later began to write about the women of her native Appalachian mountains and rose to prominence with Dirty Linen, The Devil's Dream, and Fair and Tender Ladies. FTP, identify her.

ANS. Lee Smith X

10. Modified fatty acids, they are synthesized by cells from membrane phospholipids. They serve a variety of functions, causing arteries to constrict, inducing uterine contractions, and stimulating pain receptors. FTP, name this type of hormone, which are produced by many, if not all, cells of the body, and whose synthesis is inhibited by aspirin.

ANS. Prostaglandins X

11. It began as a play in 1904; in 1906 a story with the title character capering in Kensington Gardens was published; and in 1911 the book adaptation was published. The hero is just 3 years old, having just cut the last of his baby teeth--despite the Disney having aged him. FTP, name this boy "who won't grow up."

ANS. Peter Pan

12. Her mother, Melanie Molitor, was a top 10 Czechoslovakian player in the 1970's. When her daughter was born, in 1980, she left Czechoslovakia for Switzerland. In 1996, the daughter entered tennis's top 10, and in February, 1997, she became number one in the world. FTP, name this tennis star, named for another tennis great.

ANS. Martina Hingis

13. Pogner, a goldsmith, offers his daughter Eva as a contest prize. Walther von Stolzing, a knight, hopes to win, but doesn't know the contest rules. Hans Sachs, a cobbler, helps Walther win the singing contest. FTP, identify work, Wagner's only comedic opera.

ANS. The Mastersingers of Nuremberg or Die Meistersinger von Nurnberg

14. It causes an overproduction of melanin, creating a blotchy darkening of the skin. It is an insidious disease which causes progressive atrophy to the adrenal gland. Named for the famed endocrinologist who first described it 1849, this disease was postulated by Zachary Cope to be the cause of Jane Austen's death. FTP, name this disease which also afflicted John F. Kennedy.

ANS. Addison's disease

15. Expelled from school for being retarded, his increasing deafness made it difficult for him to hear his teachers. In his long and productive life, he suffered from diabetes and gastric ulcers, the latter ailment leading him to a diet largely of milk, two cups every two hours, preferably obtained from a particular brown cow kept in a pasture in Parsippany, New Jersey, near his laboratory. FTP, identify this American who patented 1,093 inventions during his life, including the phonograph.

ANS. Thomas Edison

16. Hermione, wife of the king of Sicily, and Polixenes, King of Bohemia, spawn Perdita from their adulterous affair. Antigonus, courtier to Hermione's husband, Leontes, secretly raises Perdita, who falls in love with Florzel, Polixenes' son. This describes, FTP, what Shakespeare play, famous for the stage direction "Exit, pursued by a bear."

ANS. The Winter's Tale

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1. Time to play "How did they die?" For 5 pts. each, given a person, tell how they were executed...and be specific.

- a. Nathan Hale ANS. hanged ✓
- b. Caryl Chessman ANS. gas chamber ✓
- c. William Wallace ANS. hanged, drawn, and quartered ✗
- d. Jacques Danton ANS. beheaded or guillotined ✓
- e. Elena Ceaucescu ANS. shot ✓
- f. Giles Corey ANS. pressed to death by rocks (equiv) ✓

2. Many third world countries gave up having their largest city as capitals and turned to planned cities instead. For 10 pts. each identify the following.

a. The first of these cities was designed by Le Corbusier in the shape of an airplane. It became the capital of its nation in 1962.

ANS. Brasilia ✓

b. This village was the home of president Felix Houphouet-Boigny. He moved the capital of his African nation from Abidjan to here, though the government has never actually moved.

ANS. Yamasoukro ✓

c. At some point, the capital will move from Lagos to this city currently under construction.

ANS. Abuja ✗

3. Rolling Stone recently published its "Women in Rock" issue, in which they listed several significant albums. For 5 pts. each, given an album title from that list, identify its women artist.

- a. Blue ANS. Joni Mitchell ✗
- b. Tapestry ANS. Carole King ✓
- c. Dry ANS. P.J. Harvey ✗
- d. Debut ANS. Bjork ✗
- e. In Memphis ANS. Dusty Springfield ✗
- f. Pearl ANS. Janis Joplin ✓

4. Given the physiological function, name these chemical elements necessary for human survival in ionic form for ten points each.

a. This ion helps propagate an electrical nerve impulse by diffusing from the outside to the inside of a cell. These ions move quickly through the ion channels and are mainly responsible for depolarizing the membrane.

ANS. Sodium or Na ✗

b. This ion helps propagate an electrical nerve impulse by diffusing from the inside to the outside of a cell. These ions move slowly through the ion channels and are mainly responsible for repolarizing the membrane.

ANS. Potassium or K ✓

c. This ions release causes neurotransmitters to be released at the presynaptic terminals of nerve endings and it also binds to the troponin on the actin myofilaments to facilitate muscle contraction.

ANS. Calcium or Ca ✓

5. Given a U.S. Senator, identify his/her state, 5 pts. each.

- a. Bob Smith ANS. New Hampshire ✓
- b. Mary Landrieu ANS. Louisiana ✓
- c. Bob Graham ANS. Florida ✓
- d. Bob DeWine ANS. Ohio ✓
- e. Russell Feingold ANS. Wisconsin ✓
- f. Patty Murray ANS. Washington ✓

6. I'm planning a 1990's U.S. literature class. For 10 pts. each, given a work I'm teaching, identify its author.

- a. The Shipping News ANS. E. Annie Proulx ✓
- b. Push ANS. Sapphire ✗
- c. The Ice Storm ANS. Rick Moody ✗

7. How well do you know your Victorian era poetry? For 5 pts. each, identify the authors of:

- a. Crossing the Bar ANS. Lord Tennyson ✓
- b. Angel in the House ANS. Coventry Patmore ✗
- c. The Windhover ANS. Gerard Manley Hopkins ✓
- d. The Ring and the Book ANS. Robert Browning ✓
- e. Goblin Market ANS. Christina Rossetti ✓
- f. Dover Beach ANS. Matthew Arnold ✓

8. We all know that Zeus, Hera, and Apollo are Greek deities and that Jupiter, Juno, and Minerva Roman ones. For the stated number of points, given a collection of deities, identify the culture which worshipped them.

- a. 5 pt: Bast, Horus, Set ANS. Egyptian ✓
- b. 10 pt: Bran, Manawyddan, Magon, Taliesin ANS. Welsh or Wales ✓
- c. 15 pt: Dievas, Zeminkis, Zamlja ANS. Lithuanian ✗

9. If Albert Gore finishes out his term, he will be the eighth vice-president to serve two full terms in that office. For 5 pts. each, identify any six of the previous seven.

ANS. John Adams, George Clinton, Daniel Tompkins, Thomas R. Marshall,
John Nance Garner, Richard Nixon, George Bush

10. Answer these questions about Charlemagne, 10 pts. each.

a. In his support of literacy, Charlemagne brought this Northumbrian monk over from England to head his palace school.

ANS. Alcuin ✓

b. He divided his empire into 250 counties administered by counts. To supervise the counts, Charlemagne created these royal messengers, generally two laymen and a bishop or abbot, whose annual journeys were designed to check abuse of power among the counts.

ANS. missi dominici ✗

c. What was the name of the 843 treaty which divided Charlemagne's empire among his three grandsons.

ANS. Treaty of Verdun ✗

11. Given a country, identify its capital, 5 pts. each.

- a. Slovenia ANS. Liubliana ✓
- b. Armenia ANS. Yerevan ✓
- c. Tonga ANS. Nuku'alofa ✓
- d. Honduras ANS. Tegucigalpa ✓
- e. Moldova ANS. Kishinev ✗
- f. Albania ANS. Tirane ✓

12. Name the famous short story with a surprise ending given a brief plot description for 10 pts. each. 5 pt. if you need the author.

a. 10 pt: This story chronicles the elderly Phoenix Jackson's difficult journey through the woods and into town to get medicine for her grandson.

5 pt: Eudora Welty

ANS. A Worn Path ✗

(over for parts b & c)

b. 10 pt: All the villagers gather in the town square and draw slips of paper from a box to win a not-so-enviable prize.

5 pt: Shirley Jackson

ANS. The Lottery

c. 10 pt: In this story a woman learns that her husband has been killed in a railroad accident. When she finds that the news was a mistake, she has heart attack and dies.

5 pt: Kate Chopin

ANS. The Story of an Hour

13. Identify these phases of cell division for five points each, and a bonus five points for all five.

a. The phase in which nuclear membranes are broken down by proteolyte enzymes. A
prophase

b. The phase in which cytokinesis occurs.

ANS. telophase

c. The phase in which sister chromosomes separate.

- ANS. anaphase

d. The phase in which the cell is not dividing.

ANS. interphase

e. The phase in which the cell chromosomes begin alignment along the equator of the spindle.

ANS. metaphase

14. If you know your American history, this question should be as easy as A-B-C. For five points each, name the three member American delegation approached for a bribe to negotiate with Talleyrand in 1797.

ANS. John Marshall, Elbridge Gerry, Charles Pinckney

Of course, this question refers to the infamous XYZ Affair. For five points each, can you name the two Swiss men and one American who were X, Y, and Z?

ANS. Jean Conrad Hottinguer, Lucien Hauteval, John Bellamy

15. Nobody can chew up the scenery like an actor who is playing an actor. Given a description of a role, name the actor who played an exaggerated version of him/herself in these films, 10 pts. each.

a. Playing the aging stage actress Margot Channing, this scene-stealing star uttered the famous line, "Fasten your seatbelts, it's going to be a bumpy night."

ANS. Bette Davis

b. As the washed-up silent screen star Norma Desmond, this formerly washed-up silent screen star purred at the news cameras, "I'm ready for my close-up, Mr. DeMille."

ANS. Gloria Swanson

Playing the drunken, on the skids swashbuckler Alan Swann, this actor exasperatedly tells the producer of the live TV show on which he is to appear, "I'm not an actor! I'm a movie star!"

ANS. Peter O'Toole

16. Name the author of the following plays about women, written by men, 5 pts. each.

a. Hedda Gabbler

ANS. Henrik Ibsen

b. Miss Julie

ANS. August Strindberg

c. Antigone

ANS. Sophocles

d. Three Sister

ANS. Anton Chekhov

e. Anna Christie

ANS. Eugene O'Neill

f. Three Tall Women

ANS. Edward Albee

17. Given a description, give the term from electrodynamics, 15 pts. each.

a. This equation states that $\Delta V = -4\pi\rho$, where V is the electric potential. If ρ equals zero, this formula reduces to Laplace's equation.

ANS. Poisson's Equation X

b. This formula gives the power radiated by an oscillating electric dipole. The power is proportional to the square of the acceleration.

ANS. Larmor Formula X

18. Name the economist from works, 10 points each.

a. General Theory of Employment, Interest, and Money

ANS. John Maynard Keynes

b. Foundations of Economic Analysis

ANS. Paul Samuelson

c. The Affluent Society

ANS. John Kenneth Galbraith

19. Identify the 19th century French painters of these works 10 pts. each.

a. Mme. Charpentier and Her Children

ANS. Pierre August Renoir

b. Rehearsal on the Stage

ANS. Edgar Degas

c. Nana

ANS. Edouard Manet

20. Answer the following questions about a volatile event of the 1850's for 10 pts. each.

a. Name the South Carolina representative who assaulted a Massachusetts Senator with a cane on May 22, 1856.

ANS. Preston Smith Brooks

b. Name the Massachusetts Senator who did not return to the Senate for three years after being beaten by Brooks.

ANS. Charles Sumner

c. Name the South Carolina Senator, who Sumner compared to Don Quixote paying vows to his mistress: "the harlot, Slavery." This speech spurred Brooks' attack.

ANS. Andrew P. Butler