

Iowa State Invitational, 1994

Carleton College, Team A

October 13, 1994

Toss-Ups

1. An American general; a Progressive Conservative politician; An art historian; An American explorer; A First Baseman; FTP what surname is common, respectively, to Mark, Joe, Kenneth, George Rogers, and Will the Thrill?

Clark (accept any of the names if answered early)

2. In architecture it denotes a flat slab forming the top member of a capital. In mathematics, it is a simple device for performing arithmetic calculations. FTP, what is this six-letter word?

Abacus

3. He was said to have predicted an eclipse of the sun in 581 B.C. He is best known for proposing water as the single universal principle underlying the material universe. Though none of his writings has survived, he is often called the first philosopher and the first scientist. FTP, identify this native of the Ionian city of Miletus.

Thales [THAY-lees]

4. It is the legal term denoting the perpetual ownership of real estate by institutions such as churches that do not transfer or sell. FTP, what is this term literally meaning "dead hand"?

mortmain

5. He was born at Canterbury, educated at Cambridge, and murdered at Deptford. FTP, who wrote the poetic lines:

And if these pleasures may thee move,
Come live with me and be my Love.

Christopher Marlowe

6. Her name appears twice in the *dramatis personae* of Shakespearean plays. In one play she is described as "A rich heiress, of Belmont" while in another she is "wife to Brutus." FTP, who is this heroine of *The Merchant of Venice*?

Portia

7. He is the most recent U.S. President also to have served as Secretary of State. His own Secretaries of State were Lewis Cass and Jeremiah S. Black. One of his Attorneys General was Edwin M. Stanton. FTP, identify this graduate of Dickinson College whose Vice President was John C. Breckinridge.

James Buchanan

8. A new one was founded in 44 BC under the emperor Augustus, and became an important center of Roman administration. The original, whose name meant "new town" in Phoenician, had been destroyed in 146 BC, the city walls torn down and the land sown with salt. FTP, name this city traditionally founded by Dido.

Carthage

9. To a pathologist it is the term for an organism that carries pathogens from one host to another. To a mathematician it is a quantity having both magnitude and direction. FTP, what is this quantity, the simplest representation of which is an arrow connecting two points?

vector

10. His films include *Yanks*, *Marathon Man*, and *Sunday, Bloody Sunday*, but his biggest critical success was his first U.S. film, *Midnight Cowboy*. FTP, identify this British film director who shares a surname with the historian awarded a Pulitzer Prize for *The Age of Jackson*.

John Schlesinger

11. Physicist Paul Dirac predicted the existence of antiparticles in 1928, but it was another four years before Carl Anderson confirmed Dirac's prediction by detecting—FTP—evidence for what elementary particle corresponding to the electron, but with an opposite electrical charge?

positron or antielectron

12. Magazine, Egypt, Richard, Rock, and Dipper. If you haven't already hit the buzzer, these words may seem to have precious little in common—but all are commonly preceded by the same six-letter word. FTP, give this word which may also precede "Bighorn."

Little

13. "Persons attempting to find a motive in this narrative will be prosecuted; persons attempting to find a moral in it will be banished; persons attempting to find a plot in it will be shot." FTP, this injunction appears at the beginning of what novel about a boy who decides he would rather go to hell than be the means of sending a runaway slave back into slavery?

The Adventures of Huckleberry Finn, by Mark Twain

14. In 1915 he wrote *Soda Fountain Rag*, in 1932 *Creole Rhapsody*, and in 1947 a work commissioned by the Liberian government, *Liberian Suite*. In 1969 he was a recipient of the Presidential Medal of Freedom. FTP, identify this jazz great, one of whose biographies was written by his son, Mercer.

Duke (Edward Kennedy) Ellington

15. France transferred sovereignty to this newly-independent nation in 1977, and later that year it became a member of both the Organization for African Unity and the Arab League. It is separated by the strait of Bab ~~al~~ Mand~~ab~~ from the Arabian peninsula. FTP, what is this republic previously known as the French Territory of the Afars and Issas?

Djibouti [JIH-boo-tee]

16. President Grover Cleveland, Attorney General Richard Olney, Illinois Governor John Altgeld, and the American Railway Union's Eugene Debs. These are all names that figured prominently a century ago this year in reporting, FTP, on what notorious 1894 Chicago labor dispute?

the Pullman strike

17. Working with C.H. Best under the direction of John J.R. Macleod, he succeeded in isolating a useful hormone from the pancreas. FTP, identify this Canadian physician awarded a 1923 Nobel Prize for his discovery of insulin.

Sir Frederick Banting

18. In the *Purgatorio* Dante writes: "In painting Cimabue thought to hold the field, and now *blank* has the cry, so that the other's fame is dim." FTP, fill in the blank with the name of Dante's friend and fellow Florentine, the painter of *Madonna in Glory* and 38 frescoes in the Arena [Ah-RAY-nah] Chapel in Padua.

Giotto di Bondone

19. Ten years younger than the detective story writer with whom he shared a surname, he served as a state governor in the 1930s and again in the 1950s. In between he held a couple of jobs: U.S. Senator and Commissioner of Baseball. FTP, name this Kentuckian.

A(lbert) B(enjamin) "Happy" Chandler

20. In 1950 she became the first African-American to be awarded a Pulitzer Prize, for her book of poems entitled *Annie Allen*. FTP, identify this writer, whose most-anthologized work is probably the poem "We Real Cool."

Gwendolyn Brooks

21. They are a richly varied family of xerophytes, ranging in size from less than an inch to 60 feet tall. Of the roughly 2,000 species included in the group, all but 1 are native to the New World, and some 1,200 are indigenous to North America alone. FTP, name this plant family whose members include the organ pipe, hedgehog, pincushion, yucca, and saguaro.

Cactus, or Cacti

22. The name of this Englishman was inscribed in Red Square as one of the founders of the Russian Revolution—despite the fact that by 1917 he'd been dead nearly 400 years. This was because a sort of primitive communism was the mark of his *Utopia*. FTP, identify this martyr whom Erasmus called "a man for all seasons."

Sir Thomas More

23. Entrance to its luxurious halls could be gained only by crossing the rainbow bridge Bifrost, guarded by the ever-watchful Heimdall. FTP, what was this home to the Aesir, which included among its storied halls the one for slain heroes known as "Valhalla."

Asgard

24. The actual species of true ones has long been debated, but the plants most often favored are the wood sorrel, the black medic, and the white clover. According to legend it was used by St. Patrick to explain the doctrine of the Trinity. FTP, what is this plant used as the emblem of Ireland?

Shamrock

25. Brent, Camden, Sutton, Enfield, Hackney, Barnet, Redbridge, Islington, Merton, Lambeth, Greenwich, Hammersmith, and Westminster are all, FTP, boroughs of what city?

London

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Bonuses

1. (30 points) Of the following Roman Catholic religious orders: Augustinians, Benedictines, Carmelites, Cistercians, Dominicans, Franciscans, and Jesuits – which, for 10 points apiece, were once known as:
 - (a) (10 points) the Black Friars
Dominicans
 - (b) (10 points) the Grey Friars
Franciscans
 - (c) (10 points) the White Monks
Cistercians
2. (20 points) Surprisingly, the University of Benin is not located in the country of Benin. Instead it is to be found in the capital city of the country bordering Benin on the west.
 - (a) (10 points) First, for 10 points, name that country.
Togo
 - (b) (10 points) Now for another 10 points, name Togo's chief port and capital city.
Lomé
3. (20 points) The Boy Scouts of America was founded, Tolstoy and Twain died, Halley's Comet put in an appearance, and Martin Luther, had he lived, would have turned four hundred and twenty-seven. For 20 points, what year was this?
1910

4. (30 points) Score 30 points for naming this city after one clue, 20 points after two, or 10 points after three.
- (a) (30) Founded in 1855, it was named in honor of the victor of the 1838 battle of Blood River—the same man who in 1852 represented his people at the Sand River Convention.
 - (b) (20) Articles of peace were signed there on May 31, 1902.
 - (c) (10) In 1860 it became the capital city of the Transvaal.

Pretoria

5. (25 points) For 5 points apiece, identify the groups or solo artists responsible for the following pop music albums, all appearing on a recent Billboard Top 40 chart:
- (a) (5 points) *August and Everything After*
Counting Crows
 - (b) (5 points) *Purple*
Stone Temple Pilots
 - (c) (5 points) *Voodoo Lounge*
Rolling Stones
 - (d) (5 points) *Superunknown*
Soundgarden
 - (e) (5 points) *Not a Moment Too Soon*
Tim McGraw
6. (30 points) Identify the following notable figures in Mexican history, for 10 points apiece:
- (a) (10 points) The former royalist army officer proclaimed emperor in 1822 as Agustin I.
Agustin de Iturbide
 - (b) (10 points) The longtime president and dictator forced into exile by the success of the Mexican Revolution in 1911.
Porfirio Diaz
 - (c) (10 points) The idealistic liberal leader who began the armed revolt against Porfirio Diaz in 1910, became president in 1911, but was overthrown and murdered in 1913.

Francisco Madero

7. (25 points) Many persons in history are remembered chiefly through their association with someone else. For 5 points apiece, identify the following persons associated with the life of W. A. Mozart:
- (a) (5 points) the official court conductor in Vienna during Mozart's residence there
Antonio Salieri
 - (b) (5 points) the librettist of *The Marriage of Figaro*
Lorenzo da Ponte
 - (c) (5 points) the librettist of *The Magic Flute*
Emmanuel Schikaneder
 - (d) (5 points) Mozart's pupil who completed the *Requiem* left unfinished by Mozart's early death
Franz Süssmayr
 - (e) (5 points) the cataloger of Mozart's works, responsible for the "K" numbers by which they are commonly identified
Ludwig von Köchel
8. (20 points) Two main types of non-Euclidian geometry were developed by mathematicians in the 19th century. For 10 points apiece:
- (a) (10 points) By what adjective (not derived from a personal name) do mathematicians describe the geometry developed by N.I. Lobachevsky, and independently by Janos Bolyai, in which there may be two lines parallel to a given line through a given external point?
hyperbolic
 - (b) (10 points) By what adjective (not derived from a personal name) do mathematicians describe the geometry developed by Bernhard Riemann, in which there are no parallels to a given line through a given external point?

elliptic or spherical

9. (30 points) 30-20-10. Identify the writer from quotes appearing in *Bartlett's Familiar Quotations*.

- (a) (30) "O body swayed to music, O brightening glance, How can we know the dancer from the dance?"
- (b) (20) "All changed, changed utterly: A terrible beauty is born."
- (c) (10) "And what rough beast, its hour come round at last, Slouches towards Bethlehem to be born?"

William Butler Yeats (Sources: *Among School Children*, *Easter 1916*, *The Second Coming*)

10. (30 points) 30-20-10. Name the director from his films.

- (a) (30) *The Last Detail* and *Bound for Glory*
- (b) (20) *Shampoo* and *Coming Home*
- (c) (10) *Harold and Maude* and *Being There*

Hal Ashby

11. (25 points) For 5 points apiece, identify the American author from a short list of his or her characters. [n.b. each character mentioned comes from a different novel or play]

- (a) (5 points) Lily Bart, Newland Archer, and Mattie Silver
Edith Wharton [from *The House of Mirth*, *The Age of Innocence*, and *Ethan Frome*]
- (b) (5 points) Muriel Macomber, Chris Christopherson, and Yank
Eugene O'Neill [from *Ah, Wilderness*, *Anna Christie*, and *The Hairy Ape*]
- (c) (5 points) Pecola Breedlove, Jadine Childs, and Macon Dead III, also known as Milkman
Toni Morrison [from *The Bluest Eye*, *Tar Baby*, and *Song of Solomon*]
- (d) (5 points) Lambert Strether, Olive Chancellor, and Madame Merle
Henry James [from *The Ambassadors*, *The Bostonians*, and *Portrait of a Lady*]
- (e) (5 points) Winston Niles Rumfoord, Billy Pilgrim, and Lionel Boyd Johnson, also known as Bokonon

Kurt Vonnegut, Jr. [from *The Sirens of Titan*, *Slaughterhouse-Five*, and *Cat's Cradle*]

12. (20 points) It is the name biochemists give to the series of reactions occurring in the mitochondria by which the acetic acid portion of acetyl CoA is converted to carbon dioxide, protons, and hydride ions, the latter usually as part of the coenzyme NADH. For 20 points, give the name for this series of chemical reactions essential for the oxidative metabolism of glucose and other simple sugars.

Krebs cycle, OR citric acid cycle, OR tricarboxylic acid cycle

13. (25 points) Answer the following questions relating to the laws of electrical resistance.

- (a) (10 points) First, for 10 points, name the law which states that the electric current i flowing through a given resistance r is equal to the applied voltage v divided by the resistance, or $i=v/r$.

Ohm's law

- (b) (15 points) Second, for general application to alternating current circuits where inductances and capacitances as well as resistances may be present, Ohm's law must be amended to $i=v/z$, where z is – for 15 points – what?

impedance

14. (30 points) I hope this bonus isn't out of your league. Given the name of an historic coalition of states, identify, for 10 points apiece, the specific European power which each was an alliance *against*.

- (a) (10 points) the 16th century League of Cambrai
the republic of Venice

- (b) (10 points) the 16th century Holy League
France

- (c) (10 points) the 17th century League of Augsburg
France

15. (30 points) 30-20-10. Identify the author.

- (a) (30) His plays include *Henry IV* and *Right You Are, If You Think So*.
(b) (20) He was the third Italian awarded a Nobel Prize for Literature.
(c) (10) His best known work is probably *Six Characters in Search of an Author*.

Luigi Pirandello

16. (25 points) Given the standout professional athlete, identify his collegiate alma mater for 5 points apiece:

- (a) (5 points) baseball great Christy Mathewson
Bucknell University
- (b) (5 points) basketball great Bill Russell
University of San Francisco
- (c) (5 points) football great Sammy Baugh
Texas Christian University (or TCU)
- (d) (5 points) tennis great Jimmy Connors (before turning pro)
UCLA
- (e) (5 points) all-around great Jim Thorpe
Carlisle Indian School

17. (25 points) Biblical characters bonus. Put names to the following, for 5 points apiece:

- (a) (5 points) the father of Methuselah
Enoch
- (b) (5 points) the Egyptian who bought Joseph from the Ishmaelites
Potiphar
- (c) (5 points) the mother of Samuel
Hannah
- (d) (5 points) the husband of Jezebel
Ahab
- (e) (5 points) any one of the three "comforters" of Job
Eliphaz, or Bildad, or Zophar

18. (20 points) Thomas E. Dewey and Adlai Stevenson were both unsuccessful nominees for President twice. For 5 points apiece, name the four running mates of Dewey and Stevenson.

John W. Bricker, Earl Warren, John J. Sparkman, and Estes Kefauver

19. (25 points) Given the name of a prominent museum of art or science, identify the city in which it is located, for 5 points apiece:

- (a) (5 points) The Gardner Museum
Boston
- (b) (5 points) The Deutsches Museum

Munich

- (c) (5 points) The Pitti Palace

Florence

- (d) (5 points) The American Museum of Atomic Energy

Oak Ridge, Tenn.

- (e) (5 points) The Ashmolean Museum

Oxford (England)

20. (25 points) For 5 points apiece, identify the authors of the following well-known non-fiction books published in the 1970s:

- (a) (5 points) *Against Our Will: Men, Women and Rape*

Susan Brownmiller

- (b) (5 points) *Small is Beautiful*

E. F. Schumacher

- (c) (5 points) *The Uses of Enchantment*

Bruno Bettelheim

- (d) (5 points) *The Joy of Sex*

Alex Comfort

- (e) (5 points) *The Lives of a Cell*

Lewis Thomas

21. (30 points) 30-20-10. Name this American.

- (a) (30) In 1831 he became the son-in-law of Martha Washington's grandson, who had been adopted as a son by George Washington.

- (b) (20) His reputed last words, October 12, 1870, were "strike the tent."

- (c) (10) Quite at home in the saddle, his favorite mount was a celebrated grey charger named "Traveller".

Robert E. Lee

22. (20 points) In his January 6, 1941 message to Congress, President Roosevelt enunciated "Four Freedoms" which later were substantially incorporated into the Atlantic Charter. For 5 points apiece, what were FDR's "Four Freedoms"?

Freedom... of speech and expression, of worship (accept: religion), from want, from fear

23. (25 points) Identify the following author from the given clues; 25-15.

- (a) (25) He wrote *The Masters*, *The Corridors of Power*, and *Last Things*.
- (b) (15) He is best remembered for his famous Rede Lecture on *The Two Cultures and the Scientific Revolution*.

C(harles) P(ercy) Snow