

Iowa State University

The Beautiful and Damned

October 25-26, 1996 - Ames, Iowa

Round Thirteen

Toss-ups

(Mathematics: Calculus)

1. The integral of 1 over a polynomial can be quickly resolved by factoring the denominator and writing the original fraction as a sum of general, lower-degree polynomials over each of the fractions. Choose coefficients so as to cancel all terms by the constant. Break the sum into parts and evaluate each simpler integral independently. FTP, what integration technique have I described?

method of partial fractions

(History: Europe--1900s--Political)

2. After the first, the independent state of Albania was created out of territory that should have gone to Serbia per a secret agreement made with Bulgaria in 1913. Feeling cheated, the Serbians organized an alliance against Bulgaria and precipitated the second one. FTP, what were these two wars, named for European peninsula on which they were fought?

Balkan Wars

Bonuses

(History: Ancient)

1. Identify the following rulers contemporary with King Solomon for ten points apiece. Their Biblical names will suffice.

A. This Phoenician supplied the cedars and the finest bronze craftsmen for the Temple; he received twenty cities in return with which he was not pleased.

Hiram of Tyre

B. This ruler of a principality near Yemen came to test Solomon's wisdom with subtle questions. His answers earned him the largest gift of spices ever.

Queen of Sheba

C. This ruler succored Solomon's enemies including Hadad the Edomite, and Jeroboam, son of Nebat.

Pharaoh, King of Egypt

(Film)

2. 30-20-10 identify the director.

30: His *Strike* is a semidocumentary about the suppression of a strike by factory owners and police. The conclusion contains the massacre of strikers intercut with footage of cattle being slaughtered.

20: His film *October* was based on John Reed's *Ten Days that Shook the World*.

10: Structured into five acts, his *Battleship Potemkin* contains the famous "Odessa Steps" sequence.

Sergey Eisenstein

(Classical Music)

3. After his voice broke in 1812 he became the pupil of Salieri. By 1817 he had begun work on his *Lieder* and had completed *Die Forelle*. FTP, name this German composer, remembered today for his *Trout Quintet* and his "unfinished" 8th symphony.

Franz Schubert

(Life Science: Anatomy)

4. Inside a loop of the duodenum lies a six-to-eight inch long pinkish-yellow gland responsible for inducing the liver to release glucose into the bloodstream via glucagon and also for allowing cells to use the glucose by releasing insulin from the Isles of Langerhans. FTP, identify this organ.

pancreas

(Chemistry: History)

5. "Each added amount of radiation causes damage to the health of human beings all over the world," read part of his 1958 U.N. petition to ban atomic testing. A prior interest had been precisely measuring the size of atoms and the length of bonds between them. FTP, who was this American chemist who won Nobel prizes in chemistry and peace for his work?

Linus Carl Pauling

(History: Mediterranean)

6. Its population is believed to be Carthaginian in origin and their language is Semitic. It was supposed to have been restored to the Knights according to the treaty of Amiens, but instead remained controlled by the British. FTP, identify this island, in 1530, was given by Emperor Charles to the Knights of the Order of St. John of Jerusalem.

Malta

(History: Miscellaneous)

3. Given the country, name its parliament for ten points apiece.

A. Poland

Sejm

B. Iceland

Althing

C. Iran

Majlis

(Current Events: Africa)

4. Answer the following questions about the ongoing genocide in Rwanda and Burundi for ten points apiece.

A. What ethnic group is by far the largest in those two countries?

Hutu

B. What man was elected king in 1993 after the first multiparty presidential election in Rwanda, only to be murdered in a military coup six months later?

Melchior Ndadaye

C. What Burundian archbishop, ironically an ardent activist for peace, was brutally murdered in October, 1996?

Joachim Ruhuna

(Classical Music: Recognition-AUDIO)

5. The moderator will play three excerpts from works famous in Academic Quiz Competition for stories concerning their composition or performance. Identify each for ten points apiece.

A. Hector Berlioz' *Symphony Fantastique*

B. Antonin Dvorak's *Symphony No. 9 (Symphony from the New World)*

C. Igor Stravinsky's *Le Sacre du Printemps (The Rite of Spring)*

(Philosophy: Concepts, 200-1000)

6. Answer the following about the development of Neoplatonic philosophy from 200 to 500 CE for ten points apiece.

A. Name either of the two philosophers most responsible for the development.

Plotinus or Proclus

B. What English name is given to the essential nature of objects which exist by divine reason? These are the only things that truly exist.

forms

C. What Greek name is retained for the desire of the lower realms, including men, to turn upward and perceive the world of forms?

anastrophe

(Literature: Children's)

7. This owner of the Bible and Sun bookstore was portrayed in *The Vicar of Wakefield* and is thought to have been the first man to sell books for children. FTP, who is this publisher of *Goody-Two-Shoes* and *Mother Goose's Melody* and other quaint penny books who inspired Frederic G. Melcher to name an annual award for him?

John Newberry

(Philosophy: People)

8. He thought the most important question was "Why is there something rather than nothing at all?" and sought the answer in studies of human existence, or Dasein [DAH-zine], including etymologies and the verse of his favorite poet, Friedrich Hölderlin. FTP, who is this German philosopher who strove to understand Being, who reported his thoughts in such works as *What is Thinking?* and *Being and Time*?

Martin Heidegger (1889-1976)

(History: American, social, 1875-1950)

9. He opposed entry into World War I and the League of Nations and his main interest lay in the development of public ownership of public utilities; he authored the bill creating the Tennessee Valley Authority. FTP, name this Nebraska senator who, with Fiorello LaGuardia sponsored a landmark U.S. bill encouraging labor union activity?

George William Norris

(Chemistry: Physical)

7. Answer the following questions about entropy for ten points apiece.

A. The entropy change for a process is given by dividing the heat flow by what quantity?

temperature

B. Whose theorem states that for non-reversible processes, the entropy change is positive?

Rudolf Clausius

C. In Boltzmann's statement that entropy equals k times the log of omega, what is omega?

the number of equiprobable states the system could be in

(History: Central/South America)

8. Answer the following questions about the Organization of American States in the 1960's for ten points apiece.

A. In 1960 the OAS took its first collective action and imposed diplomatic sanctions on a member. Which country was sanctioned?

Dominican Republic

B. Identify the 1961 OAS long-term, large-scale investment program designed to solicit funds from throughout the world.

Alliance for Progress

C. In 1969 the OAS successfully intervened and ended a war within five days. Name the aggressor country.

El Salvador

(Literature-Japanese-Novel)

9. Given the character or characters, identify the Japanese novel in which they appear for ten points apiece.

A. Prince Momozono and Kokiden

The Tale of Genji

B. Kuroda Noboru

The Sailor Who Fell from Grace with the Sea

C. Ogata Shingo

The Sound of the Mountain

(Bible)

10. This rich councilor and member of the Sanhedrin didn't vote for crucifixion, but offered his new tomb for the body of Jesus the Christ afterward. FTP, who is this secret follower who, according to legend, carried the Holy Grail to England?

Joseph of Arimathea

HALFTIME

(Computer Science)

11. Backslash "o" double quote produces an "o" with an umlaut; percent signs signify comments. Dollar signs enter math mode. Backslashes precede most commands. FTP, what is this typesetting language designed by Donald Knuth which is properly pronounced as if the "x" were a chi?

TeX [rhymes with "blech"]

(History: American, -1800, social)

12. Governor William Berkeley failed to quickly repel an Indian invasion in Virginia. A local man assembled a militia and defeated the Indians, but then urged colonial reforms on the Governor. When refused, he used his army to capture and burn Jamestown. The rebellion ended with his death. FTP, what name is given to this 1676 uprising?

Nathaniel Bacon's Rebellion

(Geography-Asia [VISUAL 96-RRH-18])

10. The moderator will provide you with a map of China. Answer the following questions for ten points apiece.

A. Which letters are closest to Beijing and Shanghai respectively?

K and J

B. In which body of water is "M" located?

the Gulf of Tonkin

C. What country is due east of "A"?

India (Bharat)

(Literature: Scandinavian, prose)

11. Identify the following Scandinavian Nobel prize laureates in literatures for fifteen points apiece.

A. This Danish author won in 1944 for a corpus including a six-volume novel describing the evolution of man from before the Ice Age to the time of Christopher Columbus.

Johannes Vilhelm Jensen (1873-1950)

B. This Norwegian won in 1903 for tales of country life like *Synnove Solbakken*, *Arne*, and *A Happy Boy*. He also wrote the Norwegian national anthem.

Bjørnstjerne Bjørnson [BYURN-styer-nuh BYURN-sun]

(Modern Culture: Music)

12. I'll play a clip from a 1993 duet and follow it with questions.

A. First, for five points each, who are the two singers featured?

Natalie Merchant and Michael Stipe

B. Next, what is the name of the song?

"To Sir, With Love"

C. Finally, who originally wrote the song?

Lulu

(Literature: American, 1901 - 1950, prose)

13. Goodhue Coldfield nails himself up in the attic and starves to death. Henry kills sister Judith's suitor Charles Bon upon returning from the War. Thomas returns, attempts to rebuild his plantation, the is killed by the squatter Wash Hones. FTP, identify this William Faulkner novel about the rise and fall of the Sutpin family.

Absalom! Absalom!

(Sports: Football)

14. His career began with the Minnesota Vikings, although he also played for the New York Giants. Inducted into the Pro Football Hall of Fame in 1986, at his retirement he held the records for career rushing yards by a quarterback, most career interceptions thrown, and most career passing attempts, completions, yards, and touchdowns. FTP, identify this quarterback, who has seen many of his most important records fall to Dan Marino in the last two years.

Fran Tarkenton

(History: Irish, 1750-1900, political)

15. He obstructed all legislation and encouraged the boycott of landlords to obtain the passage of the 1886 Tenant's Relief Bill as part of his larger goal. He weathered the forgeries implicating him in the Phoenix Park murders, but the scandal of his affair with Mrs. O'Shea ruined his career and his goal of Home Rule. FTP, who was this Irish patriot?

Charles Stewart Parnell

(History-Europe-1910's)

13. Eight kings rode behind the coffin in 1910 at Edward VII's funeral. For five points apiece, name any six.

King George V of England,

King Frederick VIII of Denmark,

King George I of the Hellenes,

King Haakon VII of Norway,

King Alfonso XIII of Spain,

King Manuel II of Portugal,

King Ferdinand I of Bulgaria, and

King Albert I of Belgium

(Literature: English, poetry, -1700)

14. Answer the following questions on the Mabinogion for ten points apiece.

A. In which language was it originally conceived and recorded?

Welsh

B. What 14th century document is our earliest complete source for it?

the Red Book of Hergest

C. In one mabinogi, six ladies-in-waiting lost the son of a nobleman and framed his wife for it by smearing her with deer's blood in her sleep. Name either the noble or his lady.

Pwyll or Rhiannon

(Social Science: Economics)

15. Identify these level curves from economics for ten points apiece.

A. It is drawn in good space and connects sets of quantities which could be produced with given technology.

production possibility frontier (PPF)

B. They are drawn in input space and connect sets of inputs which could be employed to produce the same amount of output.

isoquants

C. They are drawn in good space and connect consumption bundles among which the consumer has no preference.

indifference curves

(Literature: English, prose, 1851-1994)

16. *The Wheels of Chance*, *The History of Mr. Polly*, and *Kipps* were written out of the author's early experience in the haberdashery trade. *Love and Mr. Lewisham* was a social comedy and he stated that he conceived *Tono-Bungay* as a book along "Dickens-Thackery lines." FTP, identify this author, more famous for his science fiction novels such as *The Invisible Man*.

Herbert George Wells

(Fine Arts: Architecture)

17. They were moved from the Temple of the Sun at Heliopolis to Alexandria by the Romans, and then given by Egypt to the U.S. and Great Britain in the 1800's. They bear the names of Thutmose III and Ramses II and now stand on the Thames Embankment and in Central Park. FTP, what are these 200-ton obelisks mistakenly named for an Egyptian queen?

Cleopatra's Needles

(Physics: Electromagnetism)

13. A continuous belt of an insulating material moves past a source of negative electricity. This source sprays electrons onto the belt. The belt then goes into a hollow metal dome where a fine metallic brush moves the electrons onto the dome surface. FTP, what device for delivering constant voltage have I described, often demonstrated in introductory lectures by shocking hapless students?

Van de Graaff generator

(Literature: Egyptian)

16. Given the animal, identify the most prominent Egyptian deity which has it as its head.

A. cow

Hathor (Hator)

B. falcon

Horus

C. jackal

Anubis

D. ibis

Thoth

E. lion

Sekhmet

F. vulture (actually her whole body is a vulture)

Mut

(History: America, 1951-now)

17. Give the major events of 1960-1970 with which each of the following groups of people are associated for ten points apiece.

A. Sandra Scheurer, William Schroeder, Jeffrey Miller, Alison Krause

Kent-State massacre of 1970

B. Marquette Frye

Watts riot

C. Michael Schwerner, Andrew Goodman, James Chaney

Mississippi Summer Project

Accept: Killing of three civil rights workers in Mississippi in 1963

(Literature: American, -1850)

18. Identify the Nathaniel Hawthorne work from a description FTP.

A. A Puritan leaves on a trip into the woods and witnesses a Satanic ritual being performed by his townsfolk.

Young Goodman Brown

B. Aylmer attempts to rid his wife Georgiana of a mark like a pygmy hand upon her cheek. He does, but at the cost of Georgiana's life.

The Birthmark

C. Giovanni spies a man and his daughter Beatrice working in a garden. Giovanni discovers that Beatrice, due to her upbringing among the poisonous plants of the garden has become poisonous as has he by his association with her.

Rappaccini's Daughter

(History: Africa)

19. Four conferences on this subject were held, one in 1945 in Manchester, one in 1958 in Accra, and two in Monrovia in 1959 and 1961. They were dominated by Kwame Nkrumah, Jomo Kenyatta, and the movement's father, W.E.B. DuBois [doo-BOYCE]. FTP, what was this political and philosophical movement to unite a continent, founded by Marcus Garvey?

Pan-Africanism

(Classical Music: People)

20. He composed music for two documentary films about the Great Depression, collaborated with Gertrude Stein on two operas, and served as music critic for the New York Herald Tribune from 1940 to 1956. FTP, who is this American author of *Music, Right and Left* and composer of *Four Saints in Three Acts*, *The Mother of Us All*, and *The Mayor La Guardia Waltzes* who shares his first name with the author of *The Aeneid*?

Virgil Thomson

END OF ROUND

(Geography: North America)

E1. Sunset Crater and Wupatki national monuments lie along the Little Colorado River in north-central Arizona. The surrounding buttes and mesas are full of limonite and hematite that provide beautiful bands of yellow and red. FTP, what is this wasteland named for its canvas-like appearance?

The Painted Desert (El Desierto Pintado)

(Biology: Taxonomy)

19. FTP each, name the three subphyla of the phylum Chordata.

Urochordata (tunicates), Cephalochordata (lancelets), Vertebrata (vertebrates)

(Visual Art: Painting, recognition)

20. The moderator will hand you three pictures from different centuries showing different views of peasant life. Identify each painting for ten points apiece.

A. Brueghel the Elder's Peasant Wedding

B. Millet's The Gleaners

C. Chagall's I and the Village

(History: India)

E1. Identify the following Indian Political parties for ten points apiece.

A. This party of Nehru and Gandhi had power for all but four years since 1947 but was defeated in the May elections.

Congress Party

B. This Hindu Nationalist party led by Atal Behari Vajpayee took control in the May elections, but its reign was brief.

Bharatiya Janata Party (BJP)

C. This party formed to oppose Indira Gandhi in the late 70's was the parent party of the BJP and the Janata Dal party.

Janata Party

(Sports: Hockey)

E2. The Winnipeg Jets, Edmonton Oilers, Quebec Nordiques, New England Whalers, Chicago Cougars, Cleveland Crusaders, Minnesota Fighting Saints, Toronto Toros, Los Angeles Sharks and Houston Aeros were all part of a hockey league founded in the 1970's as a rival to the National Hockey League. By the end of the decade, it was struggling and four of its teams joined the NHL. FTP, can you give the full name of this league?

World Hockey Association

(Literature: Italian, prose)

E3. Four days of the fortnight are set aside for religious devotions. Of the remaining time, Day III is deception, Day IV is unhappy love, and Day VIII is trickery. FTP, identify this cycle of ten day's storytelling by Giovanni Boccaccio.

The Decameron

(Literature: American, post 1900)

20. Identify the author from works FTP each.

A. *Three Soldiers*

John Dos Passos

B. *Under the Volcano*

Malcolm Lowrey

C. *Their Eyes Were Watching God*

Zora Neale Hurston

