## Iowa State University <br> The Beautiful and Damned

October 25-26, 1996 - Ames, Iowa

## Semifinal Lightning Round

## (Literature: Greek)

1. When he was born on the floating island of Orygia, sacred swans circled the island seven times and he was given a chariot drawn by swans, a lyre, and a golden miter by his father. At Delphi he slew the dragon Python that guarded the oracle and then established the priestess Pythia there. For 10 points name this Olympic God who reigned over diverse areas, including music and epidemics.

Apollo

## (Life Science: Anatomy)

2. The secretory portion of glands, the covering of visceral organs, the inner lining of body cavities and lumina, and the outer layer of the skin are composed of tissues made of tightly- packed cells adapted for protection, absorption, and secretion. FTP, what name is given to these types of tissues?
epithelial tissues

## (History: Africa)

3. After a January coup, a July counter-coup, and a September massacre of the northern tribes, General Odumegwu Ojukwu declared an eastern province to be independent. Civil war ensued with Britian and the Soviet Union aided General Gowon's federal government and France aided the insurgent Ibos. FTP, what was this short-lived republic that collapsed in 1970 and was reabsorbed into Nigeria?

Biafra (the Biafran War)
Prompt: Nigeria
(Literature: American, 1951-1994, prose)
4. Most of the action occurs at 124 Bluestone Road, Cincinnati. Based on a true story of a fugitive slave woman who murdered her child to avoid having it returned to her master, the title character of the book is the spirit of a dead baby who returns to reclaim her mother's attentions. FTP, identify this 1987 novel by Toni Morrison.

Beloved
(Geography--South America)
5. Guarani rivals Spanish in terms of speakers in this country divided in half into the Eastern and the Chaco regions by a river of the same name. Presidents have included Higinio Morinigo, Juan Gonzalez, Federico Chaves, and Alfredo Stroessner. FTP, what is this country governed from Asuncion?

Paraguay

## (Chemistry: Organic)

6. Shifts are measured from the reference point of the protons in tetramethylsilane and are mostly between 0 and 10. Benzene rings have a characteristic signature in the 6 to 8.5 range while enols top out at 15 to 17 . FTP, what is this laboratory technique for divining the structure of organic compounds by measuring the energy absorbed by hydrogen atoms as the strength of an applied magnetic field is varied?
Answer: Nuclear Magnetic Resonance (NMR)

## (Miscellaneous)

7. They were modelled on ships developed in the Chesapeake for sea use and had very narrow hulls, very tall masts, and very many sails. Their most famous builder was Donald McKay, and famous examples include the Rainbow, the Sea Witch, and the Cutty Sark. FTP, what are these speedy sailing ships gradually replaced by steamships in the late 1800's?
clipper ships
(Bible)
8. He was murdered by his commanders Baanah and Rechab who thought to appease David after Abner's defection. Instead David ordered the commanders killed and buried this king of Israel with honor. FTP, who is the successor of Saul who reigned two years before being murdered?

## Ishbaal (Ishbopheth)

(History: American, social, 1801-1875)
9. It was the leading North American Indian tribe of the Sahaptin linguistic stock. It was driven off its reservation in Oregon when gold was discovered. The Indian name of its most famous chief was Hinmaton-Yalatit who tried to lead his tribe to Canada in 1877 but was stopped 30 miles from the border. FTP name this tribe whose name came from the tribe's wearing of nose pendants and whose leader was better known as Chief Joseph.

Nez Percé [nezz purcse]

## (Philosophy: Concepts)

10. Its three goals are self-esteem, rationality, and freedom, and its creator chose the dollar sign as its symbol. It is openly hostile to libertarianism which it views as having adopted the freedoms, but not the moral basis, of its system. On the other hand, it embraces romantic literature that demonstrates the triumph of characters with the proper metaphysics. FTP, what is this philosophical system of the protagonists of The Fountainhead and Atlas Shrugged?

Objectivism

## (Earth Science)

11. It consists of light brown layers of silt mixed with darker layers of kerogen, which is a waxy, organic substance originating from the remains of blue-green algae and other living matter. The process of retorting can be used to extract vapors of oil from the rock which can be condensed and used as fuel. FTP, what is this fine-grained sedimentary rock which may someday serve as important source of fossil fuel?
oil shale

## (Visual Art: Painting, people)

12. His early work is reminiscent of Rubens, but his later work shows the influence of Caravaggio's "dramatic moments." He paints open mouths, twinkling eyes, raised glasses, and other visual elements using dashing brush strokes to quickly set down the forms and convey spontaneity. FTP, who is this artist of Malle Babbe and The Jolly Toper, best known as the master Dutch portraitist responsible for The Laughing Cavalier?

Franz Hals

## (History: Russian)

13. They adopted the Bourbon flag and named themselves for it; their areas of strength were in the south and east where Kolchak headed a provisional government in Omsk. They failed by failing to grant land reforms and win the peasantry and losing control of the railroads to Trotsky's forces. FTP, who were these Russian counterrevolutionaries of the Russian Civil War?

White Russians

## (Literature: South American)

14. He began his literary career writing poems which helped establish the Ultraist movement in South America. In 1938 he suffered a severe head injury that left him fearing for his sanity. After his recovery he began writing the complex, dreamlike short stories he became famous for. FTP, identify this author of Ficciones [FIX-ee-oh-ease] and "The Garden of Forking Paths."

Jorge Luis Borges [BOR-haze]
(History: European, -1750 , social)
15. After six years of slavery, he escaped and studied at French monasteries. In 431, Pope Celestine I allowed him to succeed Palladius and return to his land of slavery as a missionary. FTP, who is this author of "Letter to Croticus" and Confession who resented the scornful attitude of British clergy and who allegedly symbolized the Trinity with a clover?

Saint Patrick
(Visual Art: Painting, people)
16. His works began with small, sharply-lit, realistic scenes from the Old Testament. He never lost his love of the Old Testament, and throughout his rise to become the most sought-after portraitist in Amsterdam, he continued to paint Old Testament scenes like The Blinding of Samson and Jacob Blessing the Sons of Joseph. FTP, who is this artist best known for The Polish Knight and The Night Watch?

Rembrandt Harmenszoon van Rijn [Accept either]
(Bible)
17. He betrayed his king to serve his son, counseling that son to have intercourse with his father's concubines so that his warriors would take heart. He also counseled immediate pursuit of his father and his small band, but was overruled by Hushai, the traitorous friend of David, whereupon he hanged himself, knowing that he was right, yet ignored. FTP, who was this chief counselor of David and Absalom whose counsel was as divine revelation, named with Absalom in a famous Dryden poem?

Ahitophel (Ahithophel, Achitophel)

## (History: Ancient)

18. She was the great-granddaughter of the first Roman emperor, thesister of the third emperor, the wife of the fourth emperor, and the mother ofthe fifth emperor. FTP, name this notorious woman who murdered herhusband Claudius so that her son Nero could rule.

Agrippina the Younger
(Biology: Taxonomy)
19. It is the common name for about 40 species of soft wood trees, including the genus deltoides, that are common in the northern hemisphere, Australia, and New Zealand. Due their phenomenol growth rate they are being increasingly used for biofuel programs and paper making. FTP name the tree type that includes aspens, cottonwoods, and balsam.
poplars

## (Miscellaneous)

20. Sarah Miriam was the first professional female painter in America. Raphaelle was noted for his still-lifes and miniatures, Rembrandt for his portraits. At least seventeen others with same last name within three generations were professional artists. FTP, what is this last name shared by James (father of 6) and Charles Willson (father of 17)?

Peale
(History: American, 1946-1994, political)
21. The UN was displeased, and the British were greatly offended since it was a Commonwealth country and Reagan hadn't consulted them. It began when Maurice Bishop was ousted from power and executed by a Marxist regime. This occurred, FTP, on what small Caribbean island that the US invaded in October 1983?

Grenada
(Biology: Cellular)
22. They have been called "suicide bags" because a break in their membrane would destroy the cell. This happens normally as part of programmed cell death and also in white blood cells during an inflammation. Secondary ones are created when primary ones fuse with food vacuoles or residual bodies. FTP, what are these cellular organelles which contain the cell's digestive enzymes?

Lysosomes

## (Miscellaneous)

23. Its only weakness is that as many random bits as the text to be sent must be generated and secretly conveyed to the intended recipient and that each set of random bits can be used only once. FTP, what is the common threeword name given to cryptologic systems based on this idea, the only "theoretically uncrackable" systems known to exist?
one-time pad (OTP)

## (Social Science: Economics)

24. He argued that if people take full account of the future tax burden that will be imposed to pay interest on a public debt, then government taxing and borrowing are equivalent. This became important when Ronald Reagan proposed cutting taxes in the face of a deficit. FTP, who is this long-dead economist, better known for the theories of absolute and comparative advantage, who died in 1832, 15 years after publishing On the Principles of Political Economy?

David Ricardo

## Drop to Five Competitors

(Literature: English, non-poetry, -1700)
25. Because he could speak Latin, he got off on a technicality in 1598 after killing a fellow actor. His dramas include Sejanus, His Fall for which he was summoned for questioning on charges of treason. FTP, name this playwright who was more successful with his comedies The Alchemist and Volpone.

Ben Jonson
(History: Ancient)
26. In ancient Greece and Rome, boys were accompanied to school by a slave who taught them and frequently protected them. These slaves, named for the Greek "teacher of children", lent their name to the modern science and art of teaching. FTP, who were these eponymous slaves?

Pedagogues [Prompt: pedagogy]
(Sports: Hockey)
27. He became the center of controversy when he won his first scoring title in 1955 by moving in front of Maurice Richard in the final week of the season while Richard was serving a suspension. Often credited with the invention of the slapshot, his nickname was derived from the sound of his stick hitting the puck and the puck hitting the endboards. FTP, name this former Montreal Canadiens star.

Bernie "Boom Boom" Geoffrion

## (Literature-American-1900's/Mythology-Greek)

28. John Barth's version was comprised of Dunyazade, Perseus, and Bellerophon; the mythical version terrorized Lycia and was composed of a goat, a lion, and a dragon, before being killed by Bellerophon upon Pegasus. FTP, what is this mythological monster?
chimera

## (Mathematics: Algebra)

29. Take a prime $p$ and a finite group. Find the largest power of $p$ that divides the order of the group. There will be a subgroup of that order and, if unique, it will be normal. All subgroups of that order will be conjugate and the number of such subgroups will be equal to 1 mod p. FTP, these are the primary results of which set of three theorems named for a Norwegian mathematician?

Sylow's Theorem

## (Geography--European)

30. This island group was an independent republic for seven years during the Napoleonic Wars; the Council of Vienna awarded them to Britain in 1815 which returned them to Greece in 1864. The six largest are Cephalonia, Levkas, Paxoi, Corfu, Zante, and Ithaca. FTP, what is this group, named for the sea in which they are found? Ionian Islands

## (Modern Culture)

31. Leonard, Adolph, Julius, Milton, and Herbert began their careers with their mother Minnie in a vaudville act entitled "Six Musical Mascots." After Gummo dropped out, the went to Broadway with "I'll Say She Is," and film with "Duck Soup." Say the magic word and you'll get 10 points for naming this comedy troupe. the Marx Brothers

## (Computer Science)

32. \&nbsp inserts a non-breaking space. "dl" begins a definition list with "ol" begins a numbered list. "a" starts an anchor or provides a link. "img" includes an image. "b" boldfaces text. FTP, in what typesetting language, omnipresent on the world wide web, can all these commands be found tucked inside of angular brackets?
hyper-text markup language (HTML)

## Drop to Four Competitors

## (History: Ancient)

33. The eponymos one gave his name to the year; the basileus one concerned himself with religion. They were appointed by the ecclesia and, after their term, joined the Council of the Areopagus for life. FTP, who were these chief magistrates of Athens?
archons

## (Sociology)

34. He postulated the "law of the three states" that states that people try to understand phenomena in three ways. The first is theologically through the supernatural, the second is metaphysical through the abstract, and the final is positively through objective examination. FTP, identify this man who coined the term "sociology."

Auguste Pierre Isodore Comte

## (Biology: Anatomy)

35. These four ductless, pea-sized glands release a hormone that dissolves bone and encourages phosphate uptake in the kidneys, resulting in a net increase in blood calcium level. FTP, what is this gland which prevents nervousness and muscle spasms by regulating blood calcium level by releasing parathormone?
parathyroid

## (Modern Music)

36. It asserts that the prophet's words are written on tenement halls and subway walls and that modern man bows and prays to the neon god they made. In it, Paul Simon asks the listern to take his hand and hear his voice that he might be reached and taught. FTP, what is this song beginning "Hello Darkness, my old friend..." with an oxymoronic title?

The Sound of Silence

## (Chemistry)

37. Sulfate ones are the slowest, reacting only when the mixture is fully heated. Tartrate and phosphate react immediately, during the mixing process. Combination, or double-acting, ones are the mostly widely used and work during both mixing and cooking. FTP, what is this cooking compound involving an acid- forming substance and baking soda?
baking powder

## (Modern Culture: Computer Games)

38. Backpack, helmet, blue potion, light amplification goggles, medkit, ammo clip, chainsaw, rocket, mega-armor, soulsphere, chain gun, shotgun, and BFG. FTP, these are all objects from which popular computer game published by ID software?

DOOM [Accept: DOOM II]
(Philosophy: Concepts, 1700-1900)
39. Its foremost society in the U.S. was established in 1875 by Madame Elena Petrovna Blavatsky. This system's beliefs include that of reincarnation in accordance with the Hindu doctrine of karma and that truest knowledge comes not from reason or sense but from direct communion of the soul with God. FTP, what is this philosophical system whose name comes from Greek for "God" and "wisdom"?
theosophy [thee-AHS-uh-fee]

## Drop to three competitors

## (Literature--English--Poetry--1600's)

40. It asks if God expects active service from the disabled; the answer comes that God's "state is kingly" with thousands to "post o'er land and ocean" without rest and that those less able need only bear the mild yoke for "those also serve who only stand and wait." FTP, what is this sonnet of John Milton named for his disability?
"On His Blindness"

## (Computer Science)

41. It was called "The Imitation Game" when first introduced and dealt with a man trying to pass himself off as a woman to interrogators who could communicate with him only via written messages. Later it sidestepped all of the philosophic issues related to thinking and claimed that if a human could not distinguish between the response of the computer and of a human, the computer was thinking. FTP, identify this classic test of artificial intelligence. the Turing Test

## (Classical Music: Works)

42. The first part is an affirmation of Christian faith and belief in the power of the Holy Spirit through the use of the ninth-century hymn Veni, Creator Spiritus. The second part tells of a belief in the redemption of mankind through love as Goethe presented it in the Chorus mysticus. FTP, identify this first all-choral symphony, composed by Gustav Mahler, whose nickname comes from the enormous resources necessary to perform it.

Gustav Mahler's Symphony No. 8
Accept: Symphony of a Thousand
(Hard Science: Astronomy)
43. They are found in globular clusters and the nucleus and halo of our galaxy and are always very old stars. It appears that every one has the same absolute magnitude which would make them ideal for determining stellar distances since their variability makes them easy to pick out. Unfortunately, none is close enough to have its absolute magnitude measured. FTP, what are these pulsating stars named for the first one found in the constellation of Lyra?

RR Lyrae variable stars

## (Visual Art: Painting)

44. The background is gold with hints of a rectangular pattern. He is standing on small, reddish flowers. She is standing on tall golden vines. He is dressed in rectangles-on-gold and wears a garland, while she is adorned with flowery-circles-on-gold and is kneeling in ecstasy. FTP, these are the two osculating characters depicted in what 1907-1908 Gustav Klimt painting?

The Kiss
(History--African)
45. After the Witwatersrand gold rush in 1886 thousands of Uitlanders rushed south. The previous settlers denied them rights. This led first to Leander Jameson's 1895 uprising and then to war in 1899 between the armies of Louis Botha and Lords Roberts and Kitchener. FTP, what is this 1899-1902 war in South Africa named for the Dutch farmers of the Orange Free State?

Boer War (South African War)

## (History--European)

46. The republicans, lead by Patrick Pearse, thought that the war gave his country a chance to win independence and their 1916 rebellion lasted a week before British troops defeated the Dublin rebels and executed fifteen leaders. For ten points, what was this rebellion, named for the holiday on which it began?

Easter Rebellion

## (Geography--Middle East)

47. It rises in the springs of Mount Hermon, flows 100 miles to the now-drained Lake Hula, winds 200 miles through the Ghor valley, and empties into the Dead Sea. For ten points, what is this river, famous for the tiny Sea of Galilee south of Lake Hula and a baptiser who eventually lost his head?

Jordan River

## (Literature)

48. "A political victory, a rise of rents, the recovery of your sick or the return of your absent friend or some other favorable event raises your spirits, and you think good days are preparing for you. Do not believe it. Nothing can bring you peace but yourself. Nothing can bring you peace but the triumph of principles." FTP, which 1841 Emerson work on the value of independence ends thusly?

Self-Reliance

## Drop to Two Competitors who Advance to the Finals

(Bible)
E1. Unlike other prophetic books of the Old Testament, it is not a collection of the prophet's teachings, but is a narrative of events. Chapter nine of Moby Dick includes a hymn and sermon about this book, which is usually interpreted as calling on Jews to reject nationalism and preach's God's message to all people. FTP, identify this book, in which a large plant, an repentent city, and a "great fish" all play prominent roles.

Book of Jonah (Jonas)

## (Biology: Taxonomy)

E2. When specimens of this animal were first brought to England about 1800, they were derided as a hoax. It was called a "fake beaver," an "amphibious mole," and "a combination of fish, bird, and quadruped." A German biologist assigned it the genus name Ornithorhyncus, meaning "bird's beak animal," and placed it in the order Monotremata. FTP, what is the common name of this Australian animal?

Duckbill Platypus

## (History: Middle East)

E3. In 1805, the population of Cairo, tired of the anarchy following the withdrawal of Napoleon's troops, chose the commander of the Ottoman Sultan's Albanian mercenaries to be their governor. He was illiterate, arbitrary, and ruthless, but he extended Egyptian power in all directions before English intervention forced him to reduce his army. FTP, who was this pasha who, though a soldier, was not a boxer?

Muhammad Ali Pasha

## (Medicine)

E4. This disease is caused by a bacillus bacterium related to the tuberculosis bacillum. It is also referred to as Hanson's disease after its discoverer. FTP, name this disease caused by Mycobacterium leprae and well-known because of its Biblical connections.

## leprosy

## (Ancient History--Romans)

E5. This governor of Galilee led armies against the Romans in 66 CE but was defeated and held prisoner for three years. After Jerusalem fell, he traveled to Rome and produced a chronicle of the Jewish peoples from their beginnings to the close of Nero's reign. For ten points, who is this author of "Jewish Antiquities?"

Answer: Josephus Flavius [joh-SEE-fuhs FLAY-vee-uhs]
Accept: Joseph ben Matthais
(General Knowledge)
E6. Staphylococci enter the skin near a hair and multiply. White blood cells and blood serum form pus. The skin on top becomes thin and breaks allowing the pus to drain out. FTP, what are these contagious infections which can take place at temperatures much lower then one hundred degrees Celsius?

## Boil

(Mythology--Greek)
E7. After being rescued by Hermes, a gadfly chased her from Greece, across the Bosphorus, and into Egypt where she regained her human form and bore the son of Zeus. For ten points, who is this namesake of a volcanic moon and one-time cow?

Io

## (Literature: German, non-prose)

E8. Heavily influenced by Rousseau and the recently translated works of Shakespeare, this late 18 th century literary movement's first important work was Götz von Berlichingen by Goerthe. FTP, identify this German literary movement whose name translates as "Storm and Stress."

Sturm und Drang
(Literature: Spanish, non-prose)
E9. Existing only as an imperfect 1307 copy of the 12 th century manuscript, it tells of the fall and restoration the Castillian noble Rodrigo Díaz de Vivar. FTP, identify this Spanish epic poem whose title means "lord" in Arabic. Poema de mío Cid (Poem of My Cid) or Poema del Cid (Poem of the Cid)

