

FUCT 2002: The Fabulous Unnamed Chicago Tournament

Tossups by St. Olaf

1. The grave of George S. Patton is located in this country, whose southern section is known as the Bon Pays, or “good earth,” region. On the west are the Sûre, Our, and Mosel rivers; the country’s northern third is covered by the Ardennes plateau. French and German are both official languages of—for 10 points—what 1,000-square-mile nation, the smallest country of the Benelux?

answer: the Grand Duchy of Luxembourg (or Grand-Duché de Luxembourg)

2. He followed his older brother to Hawaii at age 12, and later moved to Hong Kong, where he earned a medical degree and converted to Christianity. In 1905, he founded the Alliance Society and formulated the Three Principles of the People—nationalism, democracy, and socialism—as a means of fighting Manchu power. For 10 points—name his Chinese revolutionary, the founder of the Kuomintang (or Nationalist party) who became president in 1923.

answer: Sun Yat-sen (accept Sun Yixian, Sun I-Hsien, or Sun Wen)

3. “Poor Fool, He Makes Me Laugh;” “Magical Lasso;” and “Wishing You Were Somehow Here Again” are among the songs from this musical, which premiered in London in 1986 with Michael Crawford and Sarah Brightman in the leading roles. For 10 points—name this musical, based on a Gaston Leroux novel, set to music by Andrew Lloyd Webber, and set in the Paris Opera House.

answer: The Phantom of the Opera

4. It is equal to negative one times the number of moles times the Faraday constant times the reduction potential. Processes will spontaneously proceed in the direction in which the change in this quantity is negative. Its change is equal to zero for systems at equilibrium, and it may be derived by subtracting entropy times time from enthalpy. For 10 points—name this type of free energy.

answer: Gibbs free energy

5. Taking place mostly in the aftermath of World War II, this novel follows the misadventures of a man sometimes called Rocketman or Max Sclepzig. It was nominated for a Pulitzer, but the board voided the nomination for “obscenity and obscurity” and no Pulitzer was given that

year—despite critical acclaim for this novel about the paranoid Tyrone Slothrop. For 10 points—name this 1973 novel by Thomas Pynchon.

answer: Gravity's Rainbow

6. He was born roughly a century before Christ, but his tract the *Hortensius* helped convince Augustine to convert to Christianity. He was elected consul for 63 B.C.—the first novus homo to achieve that honor in thirty years; he did so by defeating Catiline, whose conspiracy he later helped to crush. For 10 points—name this Roman orator and statesman, perhaps best known for his Philippic orations.

answer: Marcus Tullius Cicero

7. The Supreme Court ruled that a federal law prohibiting it was unconstitutional in *U.S. v. Haggerty* and *U.S. v. Eichman*. Although four people defied the law on the steps of the Capitol two days after it was passed, only three were arrested, because the fourth, Gregory Lee Johnson, had had his conviction for the same act overturned by the Supreme Court in *Texas v. Johnson*. For ten points—name this protected form of political speech.

answer: flag burning or flag desecration (accept equivalents)

8. “No, I am not Byron. I am another as yet unknown chosen one,” he wrote in an 1832 verse, noting his high regard for the English poet. His early works include several pornographic poems and the unfinished novel *Vadim* [vah-DEEM], but he won acclaim with his poems “The Angel,” “A Dream,” and “The Death of a Poet”, a tribute to Aleksandr Pushkin. For 10 points—name this Russian writer of the early 4-part novel *A Hero of Our Time*.

answer: Mikhail Yuryevich Lermontov

9. At one point he left Vienna because of the presence of Ernst Mach. Although Poincaré showed that any system will return to states arbitrarily close to the original one, he claimed that the time necessary would be too long. He had much opposition in the mainstream, though his statistical ideas were supported by younger scientists, and he committed suicide before his theory was verified by experiment. For 10 points—name this physicist, whose namesake constant is a proportionality in his statistical formulation of entropy.

answer: Ludwig Boltzmann

10. Economics textbooks often cite the lighthouse as the classic example of this phenomenon, which also encompasses education and national defense. A “pure” example is characterized by nonexclusive consumption—it is impossible to prevent nonpayers from using it, which can lead to a free rider problem. For 10 points—name this type of good that is nonrival in consumption, meaning that one person’s use does not prevent use by others.

answer: public good

11. His panels for the Church of San Luigi de’ Francesi show St. Matthew with dirty feet, wearing a workers’ tunic, and appearing in a tavern. His paintings *The Beheading of St. John the Baptist* and *Judith Beheading Holofernes* are vivid portrayals of violence—a theme familiar to this artist, who fled Rome after committing murder in a dispute over the score in a tennis-like game. For 10 points—name this Italian known for his realistic paintings and his life of crime.

answer: Michelangelo Merisi da Caravaggio

12. Influenced by Aristotelian tradition and the atomism of Democritus, this school taught that the gods were composed of very fine atoms and could not interfere with human affairs, and declared that since all sensation ceases after death, we need not fear it. The goal of philosophy, then, was to help people overcome irrational fears and thereby maximize pleasure. For 10 points—name this ancient Greek philosophical school dedicated to freedom from pain, not to sensualism.

answer: Epicureanism.

13. Its venom, which induces coagulation and vasodilation is expressed through spurs on the hind legs of male animals. Their electroreceptor systems allow them to detect prey on land and in the water. Like echidnas, they are monotremes, meaning that they lay rubbery-shelled eggs like reptiles but nurse their young, like mammals. For 10 points, name this animal which is sometimes referred to as “duckbilled”.

answer: platypus

14. “Special Order 191” outlined the Confederate plans for this battle, and fell into Union hands when First Sergeant John Bloss found them wrapped around three cigars near Frederick. Robert E. Lee had lost at South Mountain three days before this battle, in which six generals were killed and 22,700 casualties were suffered on both sides. For 10 points—name this September 1862 battle, the bloodiest of the Civil War, which ended Lee’s invasion of Maryland.

answer: Antietam or Sharpsburg

15. He only appears in the last third of the novel, but is the book's most influential character nonetheless. His best friend is Francesco D'Antonia, a copper magnate, but he becomes involved with D'Antonia's love, Dagny Taggart, before declaring, "I swear—by my life and by my love of it—that I will never live for the sake of another man, nor ask another man to live for mine." For 10 points—"who is" this man, the central figure of Ayn Rand's *Atlas Shrugged*?

answer: John Galt

16. The Stieltjes type involves a weight function; if the Heaviside function is used, it acts like the Dirac delta. The Lebesgue type involves measure theory and can even be used for functions that are discontinuous everywhere. The Riemann type divides the distance between the limits into thin strips whose area is then added. For 10 points—name this problem, also known as quadrature, to find the area under the graph of a function.

answer: definite integration

17. Though her husband was a god, her father disapproved of her marriage. When her father, Daksha, invited all of the gods except for her husband, Shiva, to a feast, she burned herself to death to avenge the insult, promising to return to Shiva in her next incarnation as Parvati. For 10 points, name this goddess, for whom the practice of a widow's immolating herself on her husband's funeral pyre is named.

answer: Sati

18. Its "high risk" list includes information security and Medicare, but no longer Superfund or the modernization of the National Weather Service. The adoption of XML as a programming standard, the long-term viability of Amtrak, and the effects of military base closures have all recently been studied by it. For 10 points, what usually low-profile agency recently filed suit to obtain records of the White House's energy task force?

answer: General Accounting Office or GAO

19. This novel's hero ultimately abandons his wife and his family's crumbling estate to become a religious pilgrim, even though he has just passed the highest level of the state examinations. The woman he loves, Lin Daiyu, is dead; he was instead tricked into marrying Xue Baochai as the fortunes of the Jia family declined. For 10 points—name this 18th-century Chinese novel written by Cao Xueqin.

answer: The Dream of the Red Chamber or Hung Lou Meng or Song of the Stone or Shih-t'ou chi

20. Freedom of navigation. The removal of economic barriers. A reduction of armaments. The restoration of Belgian independence and neutrality. The readjustment of Italian borders. The return of Alsace-Lorraine to France. Self-determination for the nationalities of Austria-Hungary. Open covenants, openly arrived at. These proposals were--for 10 points--part of what larger series of foreign policy goals announced by Woodrow Wilson in 1918?

answer: the Fourteen Points

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Boni by St. Olaf

1. 30-20-10. Name the historical figure.

- a) A son of Cleinias, he grew up in the household of Pericles and became a friend of Socrates, whose life he claimed to have saved in a 432 B.C. battle.
- b) Only a last-minute alliance with his rival Nicias saved him from ostracism after the Spartan victory at Mantinea; he then led an invasion of Sicily.
- c) This traitor defected to Sparta and Persia, and was accused of defiling the Eleusinian Mysteries.

answer: Alcibiades

2. Answer the following about a place visited by Gulliver, for 10 points each.

- a) This island's politics are dominated by a struggle between the Slamecksans and Tramecksans, who wear high and low shoes, respectively. The people are less than 6 inches tall.

answer: Lilliput

- b) This is the capital of Lilliput.

answer: Mildendo

- c) Lilliput is at war with this neighboring island.

answer: Blefuscu

3. Name these economic models, for 10 points each:

- a) In this model, there are many producers, but their products are distinguishable. Firms have limited control of price, but are influenced by market pressures.

answer: monopolistic competition

b) In this model, there are many producers, but only one buyer. The buyer will choose to artificially lower demand, thus decreasing the price of the good.

answer: monopsony

c) In this model, there are many sellers and many buyers. The sellers have identical products and have no control on price, while the buyers have perfect information.

answer: perfect competition

4. Name these equations of quantum mechanics, 5-10-15.

a) This non-relativistic equation is the standard basis for wave mechanics.

answer: Schrödinger's equation

b) This is the relativistic equation for spin 1/2 particles; among other things it predicts antiparticles and a g-factor of 2 for the electron.

answer: Dirac equation

c) This is the relativistic equation for spin-0 particles; it is the simplest relativistic field equation.

answer: Klein-Gordon equation

5. Many Hollywood families stick together by having roles in the same film. Four of the five Cusack sibling appear in *Grosse Pointe Blank*. For 5 points each, name the siblings who appeared in it, and for 10 points name the one sibling who didn't appear in that movie.

answer: John, Joan, Bill, and Ann. Susie did not appear in the movie.

6. Name these people or things from the epic of Gilgamesh, for 10 points each.

a) This ancient man--the counterpart to Noah--tells Gilgamesh of a plant that will restore his youth.

answer: Utnapishtim

b) This companion of Gilgamesh, formed from clay, was originally a wild man; he is eventually condemned to death for killing a sacred bull.

answer: Enkidu

c) Enkidu and Gilgamesh kill this one-eyed monster that can breathe fire and turn people to stone; it was guarding the sacred cedar Gilgamesh wanted to chop down.

answer: Humbaba or Huwawa

7. Given first lines, name these novels for 10 points each. You will receive 5 if you need the author.

a) For 10: "A squat grey building of only thirty-four stories."
For 5: Aldous Huxley

answer: Brave New World

b) For 10: "The *Nellie*, a cruising yawl, swung to her anchor without a flutter of the sails, and was at rest."
For 5: Joseph Conrad

answer: Heart of Darkness

c) For 10: "It was love at first sight."
For 5: Joseph Heller

answer: Catch-22

8. Answer these questions on chemistry as seen on *The Simpsons*, for 10 points each.

a) Homer accidentally drives Ned's car into a salt storage bin, knocking it over. Luckily, the outpouring of salt melts most of the snow in Springfield because of freezing depression, an example of this kind of property, in which depend on the amount of solute rather than its type.

answer: colligative properties

b) In "They Saved Lisa's Brain", Stephen Hawking steals Homer's idea that the universe is this shape, which is in common parlance called a doughnut.

answer: toroid or torus

c) Ned Flanders has strenuous objections when this Harvard paleontologist, whose works include *Ever Since Darwin: Reflections in Natural History*, is called in to debunk a purported angel fossil.

answer: Stephen Jay Gould

9. For 10 points each, name these works by Hieronymous Bosch.

a) In this triptych, the shutters depict the third day of creation, while the left panel depicts the Garden of Eden, and the right panel depicts Hell.

answer: Garden of Earthly Delights

b) In this painting, we see a boat floating in the middle of the sea, with a crew of people aboard, most prominently a monk and nun, wasting time in various idle pastimes.

answer: Ship of Fools

c) This triptych showed the trials faced by Bosch's favorite saint: physical punishment on the left, a Black Mass in the center, and the blandishments of food and sex on the right.

answer: The Temptation of St. Anthony

10. How much do you know about the Balkans? Answer the following on a 5-10-15 basis.

a) As part of the Trianon treaty with Hungary after World War I, Rumania gained official control of this province.

answer: Transylvania

b) In the early twentieth century, this proto-nation-state was surrounded and claimed piecewise by Serbia, Greece, and Bulgaria. It is now independent, though the Greeks would like it to change its name.

answer: Macedonia

c) Alexander Stambuliski formed an Agrarian government in this nation in 1919, but in a 1923 coup Macedonian terrorists helped overthrow the government.

answer: Bulgaria

11. 30-20-10. Name the novel.

a) The protagonist often reminisces about a political hangout called Gaylord's.

b) The protagonist works his guide Anselmo in the backcountry of Spain.

c) His name is Robert Jordan and he is fighting against the fascists in the Spanish Civil War.

answer: For Whom The Bell Tolls

12. Given general descriptions of stages in mitosis, name the stage for 10 points each.

a) This stage, in which the replicated chromosomes undergo extensive condensation, ends with the dissipation of the nuclear envelope.

answer: prophase

b) This stage is characterized by the reforming of the nuclear envelope and the decondensation of chromosomes to chromatin.

answer: telophase

c) In this stage, chromosomes separate at their centromeres and are pulled toward the spindle poles

answer: anaphase

13. Only two franchises in the NFL have lost their nickname in their city, only later to revive it in that same place. Name the cities and nicknames for these two teams, for 15 points each.

answer: The Cleveland Browns and the New York Giants

14. Identify these developmental periods from Piaget's theory of cognitive development.

a) Lasting from birth to age 2, children in this stage begin to realize that objects can exist even when they do not see them.

answer: Sensory-motor period

b) Lasting from ages 2 to 7, children make language advances but cannot grasp simple concepts such as material conservation.

answer: Preoperational period

c) Lasting from ages 7 to 11, children overcome egocentrism and learn the concepts of conservation, reversibility, and transitivity.

answer: Concrete operations period

15. Three Republicans were secretary of state during the 1930s. One of them was a former New York governor who later became chief justice; the second is best known for negotiating a pact outlawing war with Aristide Briand; the third, who also served as Secretary of War under Taft and again under FDR, was known for his namesake doctrine. Name them, for 10 points each.

answer: Charles Evans Hughes, Frank Kellogg, Henry Stimson

16. For 10 points each, given two notes, name the interval that is formed, assuming the second note is higher.

a) D and A

answer: Perfect fifth

b) E flat and G flat.

answer: Minor third (prompt on third)

c) A and B

answer: Major second (prompt on second)

17. Name these numerical computing methods, for 10 points each.

a) This iterative method of obtaining roots of a function can only be used if the derivative of the function is known; in general it converges quadratically.

answer: Newton-Raphson method

b) Used often to solve Laplace's equation for electric potentials with Dirichlet conditions, this method uses averaging around points of a grid to settle into a solution.

answer: method of relaxation

b) This is the name for a class of methods in which a random sampling of points is used to evaluate expressions.

answer: Monte Carlo

18. Identify these segments of the Appalachian mountain system, FTPE.

a) This segment runs from Pennsylvania to Mt. Oglethorpe, Georgia; its namesake parkway links Shenandoah National Park with Great Smoky Mountains National Park.

answer: Blue Ridge Mountains

b) This section of the Allegheny Plateau in New York is bounded on the east by the Hudson. Its many steep-sided peaks can rise over 3,000 feet over adjacent valleys.

answer: Catskill Mountains

c) Mt. Washington is located in this New Hampshire range; other high peaks are also named for American presidents.

answer: White Mountains

19. Francois Rabelais is best known for a bawdy five-part satire. For 10 points each, name:

a) The masterpiece of Rabelais, part of which involves a search for the Oracle of the Holy Bottle.

answer: Gargantua and Pantagruel

b) The mother of Gargantua and wife of Grandgousier.

answer: Gargamelle

c) Pantagruel's friend, whose indecision on whether or not to marry helps drive the story's plot.

answer: Panurge

20. Identify the following characters from the labors of Hercules, 5-10-15.

a) Hercules' last task was to kidnap this three-headed dog from the Underworld.

answer: Cerberus

b) In Hercules' first task, he strangled this invulnerable beast. He was sometimes depicted wearing its hide.

answer: Nemean lion

c) Hercules performed the labors at the command of this king, his cousin.

answer: Eurystheus