FUCT 2002: The Fabulous Unnamed Chicago Tournament
Tossups by Jeffrey Bennett and Matt Reece

1. Batu created it from Jochi's inheritance, and Tamerlane dealt it a serious blow when he deported all its skilled merchants to Central Asia. Also known as the Kipchak khanate and referred to as "the yoke" by Russians, it was governed from Sarai and got its name from the appearance of its khan's yurt. For 10 points—name this Genghisid successor state that ruled over most of European Russia.

answer:        Golden Horde (accept early "Kipchak Khanate;" bow in awe if anyone gives the
               Mongol name, whatever that is)

2. By tradition, it can be studied only by a married man over the age of 42. Developing out of contemplation of the throne of God, as seen by Ezekiel, it grew to include explorations of the Hebrew letters and numbers through which God created the universe, and was revived by the Hasidim after being refined in Spain in a process that culminated in the Sefer ha-Zohar. For 10 points—name this system of Jewish mysticism.

answer:        The Kabbalah

3. He argued that Hopi was a superior language to English for the discussion of physics, due to its inherent facility for describing wave and rotational phenomena. He translated Mayan inscriptions in Mexico, but was trained as an engineer and worked as a fire inspector in New Haven, where he met his best-known collaborator. For 10 points—who is this linguist who developed a theory of the influence of language upon culture with his teacher, Edward Sapir?

answer:        Benjamin Lee Whorf

4. The main character is disturbed by the eerie similarities between Edith Leete and his fiancee from Boston. There are standardized shopping centers around the country, music is brought into the home in real-time through special pipes, and no worker is considered menial in the future society visited by the protagonist. For 10 points—what is this novel in which Julian West is transported to the year 2000, by Edward Bellamy?

answer:        Looking Backward, 2000-1887

5. The Hopf type involves a transition from a fixed point to a cycle. A forced oscillator in a cubic potential will exhibit them, going from small periodic orbits at low forcing to sudden large-amplitude chaotic motion at high forcing. The saddle-node type involves unstable and stable

equilibria annihilating at some parameter. For 10 points—what are these changes in number or type of attractors of a system, exemplified by the period-doubling cascade of the logistic map?

answer:          bifurcation

6. Percival Christopher Wren romanticized it and created its enduring mystique. Symbolized by the white kepi, it was started by Louis Philippe in 1831 to facilitate the conquest of Algeria and was given the motto *Legio patria nostra*; today its headquarters are found outside Marseilles. For 10 points—name this French fighting force, entirely composed entirely of non-French volunteers.

answer:          Foreign Legion or Legion Étangere

7. The debate over Wu Han's play *The Dismissal of Hai Rui From Office* helped to bring it about. The cautious Group of Five was repudiated by the Central Committee, and over the next few years, the call for "continuous revolution" led to thousands of deaths and the destruction of countless artistic treasures, until the Red Guards began fighting each other. For 10 points—name this period of Chinese upheaval, beginning in 1966, in which Mao sought to bolster his power.

answer:          Great Proletarian Cultural Revolution

8. Before Kirchhoff, he suggested that Fraunhoffer lines might be due to absorption of specific wavelengths by atoms in the sun. His law describes the motion of a spherical object in a viscous medium. The general form of his theorem states that the integral of omega over the boundary of M is the integral of the differential of omega over M. For 10 points—who is this British physicist and mathematician whose classical theorem relates a surface integral of a curl to a line integral?

answer:          Sir George Gabriel Stokes

9. Tony Blair recently interrupted a cabinet meeting on the Middle East to discuss a recent injury suffered by this man. The best crosser in all soccer, he is especially known for his deadliness in free kicks. For 10 points—name this captain of the English national soccer team, a Manchester United midfielder who is the husband of Posh Spice.

answer:          David Beckham

10. It lies in the Cornaro Chapel in Santa Maria della Vittoria in Rome. Daylight shines on the figures from a hidden source, and numerous rays surround the pair. Its sculptor is often credited with forming the Baroque style of sculpture. Its subject is a Spanish nun, a Carmelite reformer

who had a vision of an angel piercing her heart with an arrow of love. For 10 points—what is this most famous work of Gianlorenzo Bernini?

answer:        The Ecstasy of Saint Teresa

11. One target of these is phospholipase C; another is adenylate cyclase, producing cyclic AMP when it is active. Martin Rodbell discovered that, in addition to hormone receptors on the cell surface and enzymes within the cell, there were these other intermediate signal transducers between them. Abnormalities in these are involved in cholera and diabetes. For 10 points— what are these proteins named by Alfred Gilman because they react with GTP?

answer:        G protein

12. The heroine of this novel once was married to a man named Luke, but that life has ended. The cancelling of credit cards was the first sign. Now, the title character must serve her Commander, Fred, by bearing him children. The name "Offred" may be variously interpreted as "Of Fred," "Offered," or "off-red" for the color of her garment. For 10 points—what is this Margaret Atwood work set in the Republic of Gilead?

answer:        The Handmaid's Tale

13. Both Norman and Harry shared this role, one of the few father/son supervillain inheritances. Norman Osborn had gone insane after a chemical accident which increased his intellect and strength. He was equipped with a special costume and fast glider, before discovering Spider-Man's secret identity and killing his girlfriend Gwen Stacy. For 10 points—who is this villain who will appear in the new Spider-Man movie, played by Willem Dafoe?

answer:        The Green Goblin

14. It was founded on December 8, 1958, when 11 wealthy businessmen listened to a lecture in Indianapolis by the author of *The Road to Salesmanship*, Robert Welch. Over-represented in Orange County, California, its tactics included dropping anti-UN leaflets into trick-or-treaters' bags, helping draft Barry Goldwater for president, and advocating the impeachment of Earl Warren. For 10 points—name this American ultra-conservative group.

answer:        John Birch Society

15. Its name literally means "Sea of Islands," since it contains 1,130 islands of at least 2.5 acres. Its largest islands are Kokaral, Barsakelmes, and Vozrozhdenie [vuz-razh-DYAI-nee-uh], the site

of an old Soviet germ warfare plant. To the north is the delta of the Syr Darya, while the Amu Darya enters to the south. For 10 points—name this Central Asian body of water which has been shrinking due to poorly planned irrigation.

answer:        Aral Sea

16. His opus 5 is a version of Maurice Maeterlinck's *Pelleas und Melisande* as a symphonic poem for orchestra. He also composed an oratorio about King Waldemar of Gurre, the *Gurrelieder*, as well as a string sextet based on a poem by Richard Dehmel called "Transfigured Night." For 10 points—name this composer, the teacher of Anton Webern and Alban Berg, who also wrote atonal works like *Pierrot Lunaire*.

answer:        Arnold Schoenberg

17. Hesiod thought they were the daughters of Erebus and Night, but Atlas is sometimes called their father. A dragon named Ladon defended their grove, which was also surrounded by a high wall. The objects they protected were given to Hippomenes before his race with Atalanta, and were a wedding gift from Gaia. For 10 points— who were these guardians of apples given to Hera, which were taken as one of the labors of Heracles?

answer:        Hesperides

18. Biologically the products of fat breakdown, untreated diabetes leads to their build-up and eventual death for the sufferer of acidic blood. Almost as reactive as their close relatives the aldehydes, their reactivity depends on the nature of the carbonyl group. For 10 points—name this class of organic compounds, consisting of a carbon atom covalently bonded to an oxygen, and two hydrocarbon radicals, whose most famous member is acetone.

answer:        ketones

19. Raphael, Gabriel, Michael, and "The Lord" appear in its Prologue in Heaven; Helen of Troy is among the characters who appear in its second part. The title character murders a soldier named Valentine when accused of dishonoring his sister, whom he had seduced with the help of Mephistopheles. For 10 points—name this two-part play about a scholar who makes a pact with the devil, a work of Goethe.

answer:        Faust

20. At its resolution, German radio ceased normal broadcast and began playing Anton Bruckner's 7th Symphony. It was bogged down due in part to the resistance of Vasilii Chukov,

and Hitler's sending of Erich von Mannstein was futile since he would not let General von Paulus escape to the west. For 10 points—name this turning point on World War II's Eastern front, the siege of a Russian city on the Volga.

answer:        Stalingrad

1.      It began on January 31, 1968, and resulted in the decimation of the Viet Cong.  For 10 points each, name:

a)      This Viet Cong offensive that coincided with a major religious holiday, a turning point in the Vietnam War.

answer:        the Tet offensive

b)      The American general obsessed with body counts who was widely blamed for Tet and was removed soon afterward.

answer:        William C. Westmoreland

c)      The isolated American fort in northwestern South Vietnam to which America was devoting all its energy before Tet in hopes of avoiding another Dien Bien Phu.

answer:        Khe Sanh

2.      How much do you know about the poetry of T. S. Eliot?  For 10 points each, name:

a)      This title character, repeatedly comparing himself to Hamlet, wonders if he should have "squeezed the universe into a ball/To roll it toward some overwhelming question."

answer:        J. Alfred Prufrock

b)      This title character, found "Among the Nightingales," is compared to a number of animals, and appears in the Waste Land coming "to Mrs. Porter in the spring."

answer:        Sweeney

c)      This long poem presents portraits of four different locales: "Burnt Norton," "East Coker," "The Dry Salvages," and "Little Gidding."

answer:        Four Quartets

3.    Name these things related to a recent case in the news, for 10 points each.

a)    A Delaware court recently cleared the way for what computer company to make an $18 billion purchase of another large computer company?  It was originally formed out of a garage.

answer:    Hewlett-Packard or HP

b)    The decision was in favor of HP's plans to buy what number 2 personal computer manufacturer?

answer:    Compaq Computer Corp.

c)    What Hewlett-Packard CEO convinced her company's investors to back the acquisition of Compaq?

answer:    Carly Fiorina


4.    Name these things related to Tibetan Buddhism, for 10 points each:

a)    This is the term for beings who have achieved buddhahood but elected to stay on Earth to spread enlightenment.  The Dalai Lama is his earthly incarnation.

answer:    boddhisatvas

b)    This is the former palace of the Dalai Lama, located in Lhasa.  It takes its name from the celestial abode of Avalokitesvara, the most important boddhisatva.

answer:    the Potala

c)    The holder of this position is Tibetan Buddhism's second-highest ranking spiritual leader, after the Dalai lama.

answer:    Panchen lama


5.    Answer the following related questions about quantum theory, for 10 points each.

a)    These particles obey the Pauli exclusion principle; the spin-statistics theorem relates this

to their half-integer spins.

answer:     fermions

b)      Compressing an electron gas decreases the deBroglie wavelength, increasing the energy and causing a pressure resisting compression. What term is used for this pressure?

answer:     (fermion) degeneracy pressure

c)      Modelling substances as electron gases with degeneracy pressure can give a rough estimate of this value, the ratio of pressure to decrease in volume.

answer:     bulk modulus


6.      Name these plays by Euripides, for 10 points each.

a)      This play's title character, a sorceress angry at her desertion for the princess Glauce, kills many people and takes refuge with Aegeus in Athens.

answer:     Medea

b)      The title character is the bastard son of Theseus.  Phaedra, his stepmother, falls in love with him, accuses him of rape, and kills herself, leading to his death.

answer:     Hippolytus

c)      This play, never performed during Euripides' lifetime, won the first prize that had long eluded him. Dionysus appears in disguise and reveals the weakness of Pentheus, king of Thebes, who is torn apart by his mother.

answer:     The Bacchae (or The Bacchants)


7.      Name these things related to Maine geography, for 10 points each.

a)      The only national park in Maine, it is known for its beautiful coast and for Cadillac Mountain, the highest on the eastern seaboard.

answer:        Acadia National Park

b)      Henry David Thoreau was among the first to climb this mountain, Maine's highest peak and the terminus of the Appalachian trail.

answer:        Mt. Katahdin

c)      The state's largest lake, it was named for what it looked like from Mt. Kineo—a well-known part of the local fauna.

answer:        Moosehead Lake


8.      Name these leaders of American slave uprisings, for 10 points each.

a)      In 1800, 21 people were executed in Richmond, Virginia, when this slave's plans for a revolt were discovered.

answer:        Gabriel Prosser (accept either)

b)      This Charleston carpenter won a lottery in 1822, but the South Carolina authorities stopped the rebellion he hoped to fund with his winnings.

answer:        Denmark Vesey

c)      This preacher and several dozen other slaves killed 57 whites in Southampton County, Virginia, before their 1831 revolt was crushed by the authorities.

answer:        Nat Turner


9.      Name these figures from Norse mythology, for 10 points each.

a)      This son of Odin may have originally been the principal god. At Ragnarok he was to die while slaying Garm.

answer:        Tyr (or Tiw)

b)      This monstrous wolf devoured Tyr's hand while being bound with the cord Gleipnir.

answer:       Fenrir

c)       He was to avenge Odin's death by tearing apart the mouth of Fenrir at Ragnarok.

answer:       Vidar

10.       Name these Chicago architects, for 10 points each:

a)       A student of Louis Sullivan, he designed many Prairie Style houses in the suburbs, but his Robie House is in Hyde Park.  He also designed Fallingwater and the original Guggenheim.

answer:       Frank Lloyd Wright

b)       This pioneer of the International Style, the final director of the Bauhaus, designed New York's Seagram building and the campus of the Illinois Institute of Technology.

answer:       Ludwig Mies van der Rohe (prompt on "van der Rohe")

c)       The planner of the 1893 Chicago World's Fair, he pioneered the skyscraper with his partner John Root and later designed DC's Union Station.

answer:       Daniel (Hudson) Burnham

11.       Name these songs by The Who from lyrics, for 10 points each.

a)       "He stands like a statue/Becomes part of the machine."

answer:       Pinball Wizard

b)       "I get my back into my living/I don't need to fight/To prove I'm right."

answer:       Baba O'Riley (prompt, grudgingly, on "Teenage wasteland")

c)       "Perhaps he's dead, I'll just make sure/Pick this book up off the floor."

answer:       Boris the Spider

12.     Marco Polo didn't always tell the truth.  Name these things Polo related which weren't true, for 15 points each.

a)      According to Polo, the Sheik of this sect would drug his inductees and put them in a beautiful garden filled with women.  Having been given a glimpse of paradise, they would do whatever he wanted, even suicidal murder—which gave the sect its name.

answer:      the Assassins

b)      Polo relates the war between the Khara-Kitai and Genghis Khan, but he doesn't call the Khara-Kitai the Khara-Kitai.  Instead, he refers to him by this name for a legendary Christian priest-king of the East.

answer:      Prester John


13.     Name these novels by F. Scott Fitzgerald, for 10 points each.

a)      This novel is the coming-of-age story of Amory Blaine, who attends Princeton. It ends with the line "'I know myself,' he cried, 'but that is all.'"

answer:      This Side of Paradise

b)      Minor characters in this novel include T.J. Eckleburg, whose billboard eyes stare over the Valley of Ashes, and Jordan Baker, an athlete and friend of Daisy.

answer:      The Great Gastby

c)      Fitzgerald's last novel, it deals with Monroe Stahr and is an exposé of the Hollywood studio system.

answer:      The Love of The Last Tycoon: A Western


14.     Name these things related to plant roots, for 10 points each.

a)      This is the lower part of a plant embryo which develops into the root.

answer:          radicle

b)      This is a symbiotic association between the roots of a plant and a fungus.

answer:          mycorrhizae

c)      This is a root that grows from somewhere other than the primary root, such as from stems or leaves.

answer:          adventitious root


15.     Identify these things related to Islamic Spain, for 10 points each:

a)      This dynasty ruled Islamic Spain during its glory years.  All its good rulers were named Abd ar-Rahman, but they never figured out they should give every son that name.

answer:          Ummayyads

b)      The capital of Islamic Spain, it was home to a large mosque later converted to a cathedral, and was the most cultured city in Europe under the Ummayyads.

answer:          Cordoba (or Cordova)

c)      This Spanish province took its name from the Muslim name of Islamic Spain, which means "land of the Vandals."

answer:          Andalusia


16.     One of them, an Austrian, wrote a critique of Communism called *The Road to Serfdom*. The other, a Swede, wrote a two-volume study of race relations called *The American Dilemma*. They shared the Nobel Prize in economics for 1974, though the Swede said that he wouldn't have accepted if he'd known he'd have to share it with the Austrian.  For 15 points each, name these two economists.

answers:         Friedrich von Hayek, (Karl) Gunnar Myrdal

17.    Translate these Australian words from *Waltzing Matilda* into English for 10 points each.

a)    jumbuck (hint: it's a domestic animal)

answer:    a <u>sheep</u>

b)    swagman

answer:    <u>hobo</u> or <u>bum</u>

c)    billabong

answer:    a <u>stream</u> or <u>stream</u> bed (accept equivalents)


18.    Given the name of a recent animated film, name the Star Trek actor who did a voice for it, for 10 points each.

a)    *Atlantis: The Lost Empire*

answer:    Leonard <u>Nimoy</u>

b)    *Mulan*

answer:    George <u>Takei</u>

c)    *Jimmy Neutron: Boy Genius*

answer:    Patrick <u>Stewart</u>


19.    Name these things about music associated with Spain, for 10 points each.

a)    This French composer is known for his *Rhapsodie espagnol*, and more famously for a work based on a Spanish dance featuring a long crescendo.

answer:    Maurice <u>Ravel</u>

b)    His *Symphonie espagnole* is a concert suite in five movements. The second, a serenade in

seguidilla rhythm, has guitar-like pizzicato from the solo violin.

answer:        Edouard <u>Lalo</u>

c)        This work of Nikolai Rimsky-Korsakov is, as the title suggests, evocative of Spanish style.  It accompanies a ballet choreographed by Leonide Massine.

answer:        <u>Capriccio Espagnol</u>

20.        Name these things related to igneous rocks, for ten points each.

a)        This is the adjective for igneous rocks with high magnesium and iron content. They are generally dark and include basalt.

answer:        <u>mafic</u>

b)        Slowly cooling magma forms large crystals easily visible to the eye, a texture given this name from the Greek for "visible."

answer:        <u>phaneritic</u>

c)        This description of the crystallization of igneous rocks from magma includes a discontinuous olivine-liquid-pyroxene branch and a continuous plagioclase-liquid branch.

answer:        <u>Bowen's reaction series</u>