

The Fabulous Unnamed Chicago Tournament II: The Rage, 2003
Tossups by Illinois Wesleyan University

1. The name of the inventor of this reaction appears on a German vitamin plant as a testament to his reaction's usefulness in the synthesis of vitamin A. The Schlosser variant of the reaction yields trans product, while the reaction itself yields cis product. The reaction is the methylenation of an aldehyde or a ketone with a phosphorous ylide (EE-lide) to yield an alkene. FTP, identify this reaction, useful in the synthesis of complex olefins, which won its eponymous developer a Nobel Prize in 1979.

Answer: Wittig reaction

2. He avenged the burning at the stake of his mentor, George Wishart, by participating in the attack that killed Wishart's arch-enemy, Cardinal Beaton. When the French counter-attacked, he was forced to become a galley slave. A royal chaplain under Edward VI, he studied under Calvin and wrote *The First Blast of the Trumpet against the Monstruous Regiment of Women*, which attacked Catholicism in Scotland. FTP, name this founder of Presbyterianism.

Answer: John Knox

3. Though he has five career touchdowns on interception returns, and one in each of the last three seasons, his career total of nineteen interceptions is quite low for his experience. After the Minnesota Vikings failed to tender him a contract, he was instrumental in their 41-0 loss to the New York Giants in the 2000 NFC Championship game. FTP, name the former number one cornerback recently released by the Giants, the husband of Angie Harmon.

Answer: Jason Sehorn

4. In this novel, T. Cholmondeley Frink is disappointed that his poetic talent has been wasted on writing advertising jingles. Joe Paradise, guide at a wilderness resort in Maine, fails to be the idealist he is expected to be. The title character's best friend, Paul Riesling, is sent to jail for shooting his wife. The main character's son Ted elopes with Eunice Littlefield, while the main character himself goes through a rebellious phase that ends when his wife Myra becomes ill. FTP, what is this novel about a real estate agent in the town of Zenith, written by Sinclair Lewis?

Answer: Babbitt

5. It has more than half of the world's Steller's Sea Eagles as well as a large population of brown bears. Its namesake oblast includes part of the Koryak Mountains. Home to its country's first geothermal power station, it has 29 active craters in its volcanic belt region. FTP, name this Russian province whose largest city is Petropavlovsk, a peninsula in easternmost Russia well-known to players of "Risk."

Answer: Kamchatka

6. The author of this work wrote an *Apologia* to defend himself against charges that he had won his wife, Prudentilla, by magic. The author's ideas about the transmission of bad luck are outlined in the story of Aristomenus and Socrates. The work ends with the narrator's induction into the mysteries of Isis and contains stories such as that of Cupid and Psyche. FTP, identify this work about a transformation by Lucius Apuleius.

Answer: The Golden Ass (also accept The Metamorphoses or The Translations of Lucius; otherwise known as the Golden Ass)

7. By this treaty, France abandoned its fortress at Placentia and agreed to demolish its fortifications at Dunkirk. Sicily was given the Duchy of Savoy. Spain ceded Minorca and Gibraltar to the British, who received Newfoundland from the French, while the British monarch, Queen Anne, recognized the legitimacy of Philip V's claim the Spanish throne. FTP, name this 1713 treaty that ended the War of the Spanish Succession.

Answer: Treaty of Utrecht

8. His twelve etudes were dedicated to Chopin, who instructed his first piano teacher. Other works include the cantata *L'Enfant Prodigue*, for which he won the 1884 Prix de Rome, and a collection of six pieces orchestrated by Andre Caplet, which he dedicated to his daughter born out of wedlock, Chou-chou. FTP, name this French Impressionist composer known for the Children's Corner suite, *La Mer*, and *Prelude to the Afternoon of a Faun*.

Answer: Achille-Claude Debussy

9. Schumann resonances allow one to set a rough limit of the mass of one; the resonances are low frequency modes between the earth and ionosphere. They arise from the B and W3 bosons in electroweak symmetry breaking, along with the Z boson. The vanishing of their mass is related to the inverse square law for electromagnetism. FTP, what are these carriers of the electromagnetic force, thought of as quanta of light?

Answer: photon

10. Bruno Bettelheim wrote a text about this man's theories of "Man's Soul," and Lytton Strachey edited and corrected this man's critical analysis of Leonardo Da Vinci's childhood in a popular lecture. His later work, like *The Future of an Illusion*, relied more on science than early texts like *Jokes and their Relation to the Unconscious*. FTP, name this author of *Moses and Monotheism* and *Civilization and its Discontents*, the Austrian founder of psychoanalysis.

Answer: Sigmund Freud

11. The loser of this battle was dethroned by his domestic rivals and died from an infection in his gouged-out eyes; the winner, known as "the Lion Hero," was assassinated. Fought just north of Lake Van two years after the same combatants had fought at Heraclea, it involved the defeat of Diogenes Romanus by Alp Arslan's invading Seljuks. FTP, name this 1071 defeat of the Byzantine empire.

Answer: Manzikert

12. Picasso painted 27 re-imaginings of this work as part of his meditation on the art of painting. The arrangement of the three central figures is borrowed from Raimondi's engraving *The Judgment of Paris*. The two tassel-capped men are the artist's brother-in-law, Ferdinand Leenhoff, and his younger brother. Exhibited at the Salon des Refuses (REH-fyu-zay) in 1863, it scandalized critics with its use of a nude in a contemporary setting. FTP, name this work by Edouard Manet.

Answer: Luncheon on the Grass (accept Dejeuner sur l'herbe)

13. Hubbard and Douady proved that it is simply connected. Its area has been rigorously bounded between 1.503 and 1.571, but is not known exactly. Surprisingly, the Hausdorff dimension of its boundary is equal to 2, as proved by Shishikura. A point z in the complex plane is in this set if the iteration z goes to z squared plus z does not tend toward infinity, or equivalently, if the corresponding Julia set is connected. FTP, what is this set known for its stunning computer images, discovered by the author of "The Fractal Geometry of Nature"?

Answer: the Mandelbrot set

14. One founder of this company, a Brooklyn, New York native, never dreamed she would make a multi-million dollar deal with the H. J. Heinz Company, but in 1978 she did just that, selling the corporation that she had co-founded in 1963. FTP, identify this company, founded by Jean Nidetch, who cured her obsession with cookies and helped many other people lose weight with the points plan.

Answer: Weight Watchers

15. One of the great deceptions of this historical piece is that the title character was in fact killed by the Basques in 778, according to Einhard's account. As depicted in this work 400 years later, it was Saracens who ambushed the rear guard as the men with the warden of Bretagne returned from campaigns against the Moors. Despite the falsehood, FTP, what troubadour tale about the death of a vassal of Charlemagne at Roncesvalles Pass has become one of the great stories of French chivalry?

Answer: Chanson de Roland or Song of Roland

16. Some of the forms of this god include the beggar Bhikshaatana (beek-shah-TAH-nah) and the terrible Bhairava (bye-RAH-vah). Associated with the Vedic Rudra (ROO-dra), he cut off Brahma's fifth head with his fingernail. He killed Kama, the god of desire, but was persuaded to resurrect him by his consort, Parvati. FTP, identify this member of the Trimurti, sometimes called "the Destroyer".

Answer: Shiva

17. A heated debate began when the House passed the Tallmadge Amendment, by a New York congressman. Illinois Senator Jesse Thomas proposed that slavery be largely banned from the Louisiana Purchase north of 36° 30', but the impasse was only broken when Henry Clay pushed through a series of bills that also admitted Maine as a free state. FTP, name this series of laws, passed in 1820 and 1821, that ended a controversy surrounding the admission of a new slave state.

Answer: Missouri Compromise (accept obvious equivalents involving Missouri)

18. A recent NIH study by Chuang et al shows that this element stimulates division in cultured stem cells. When used as a drug, its most common forms are its citrate and carbonate salts. Its pharmacological mechanisms include stabilization of glutamergic neurotransmission, and its side effects can include flat affect (AFF-ect) and hand tremors. FTP, name this alkaloid element which is commonly prescribed for bipolar syndrome.

Answer: lithium

19. His Jamaican father blames himself for this man's misbehavior. Born in the London suburb of Bromley, he was jailed for a series of muggings in the 1990s. Described as "very impressionable," he fell in with extremist elements at Brixton Mosque and left Britain in 1998, embarking on an itinerary that ended with him boarding an American Airlines flight in Paris in December 2001. FTP, name this convicted "shoe bomber."

Answer: Richard Reid

20. Having friends is forbidden, but the protagonist has one in this book. It opens with the lines "It is a sin to write this. It is a sin to think words no others think." It paints a bleak picture of a collectivist world in which science, like the studies of electricity pursued by the protagonist in an abandoned culvert, is forbidden. The protagonist, Equality 7-2521, flees with Liberty 5-3000, the woman he calls "The Golden One." The book ends with the revelation that "The Sacred Word" is Ego. FTP, what is this Ayn Rand novella?

Answer: Anthem (accept "Ayn Rand is a fool," "Fuck Objectivism," or similar on an early buzz)

21. Controversy arose when a tapestry of it, hanging outside the U.N. Security Council since 1985, was covered in February during talks on Iraq. An eye-like image, with lightbulb for the pupil, may represent the cause of the horrors displayed, including a rearing horse and a woman with arms thrown up in fear. Created as the centerpiece for the 1937 World's Fair's Spanish Pavilion, it depicts the civilian devastation caused by the Condor Legion. FTP, what is this painting, named for a Basque village, Picasso's reaction to a bombing during the Spanish Civil War?

Answer: Guernica

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1. How much do you know about Indonesian history? For 10 points each, name:

A. This country repeatedly attacked Indonesia during its first five years of existence, after granting the country its independence in 1949.

Answer: the Netherlands

B. Often known by the name "Bung," or "friend," this man led the independence movement, became Indonesia's first president, and announced a program of "guided democracy."

Answer: Sukarno

C. Sukarno hosted an April 1955 conference of leaders of newly independent states in this Javanese city, giving a crucial boost to the embryonic Non-Aligned Movement.

Answer: Bandung

2. Divided into the Spirituals and the Conventuals, this order of monks became divided over the practice of poverty advocated by their founder. FTP:

A. Identify this order, also known as the Order of Friars Minor.

Answer: Franciscans

B. Much of our information about St. Francis comes from this saint, who wrote his official biography.

Answer: St. Bonaventure

C. The sister order of the Franciscans was founded by this saint of Assisi, who is considered the patron saint of television.

Answer: St. Clare or Clara

3. Answer the following about a Russian writer, for 10 points each.

A. This descendant of a Scottish mercenary eulogized Pushkin in the verse "Death of a Poet" and wrote romantic works like "The Angel" and "The Demon."

Answer: Mikhail (Yuryevich) Lermontov

B. Lermontov is best known for this 1840 novella about Grigori Aleksandrovich Pechorin.

Answer: A Hero of our Time (accept: Geroi nashego vremeni)

C. This final section of *A Hero of our Time* describes Pechorin's meditations on whether chance rules human existence as he serves in the army in the Caucasus.

Answer: The Fatalist

4. Answer the following about optics FTPE.

A. What principle originally stated that a light ray's path is the shortest possible, but now is

understood to also allow maximum path lengths or saddles as well?

Answer: Fermat's Principle

B What principle takes all of the points on an original wave front as point sources for the propagation of spherical wavelets?

Answer: Huygen's Principle

C. Car taillights, road sign coatings, and mirrors on the moon all use this phenomenon. Corner cubes placed on the moon with this property allow laser beams to make precision distance measurements.

Answer: Retroreflection

5. FTP, answer these questions about the newest Canadian territory.

A. Name the territory, whose creation reduced the land area of the Northwest Territories by more than a half.

Answer: Nunavut

B. Name the capital of Nunavut. This town's 1996 population was 4,220.

Answer: Iqaluit

C. This language, widely spoken in Nunavut, has two writing systems: one uses roman letters and the other is derived from English shorthand.

Answer: Inuktitut

6. A one-time curator of the Ashmolean Museum at Oxford, he purchased a tract of land in 1899 that included the city of Knossos. FTP each, name—

A. This man who then discovered the remains of an ancient civilization.

Answer: Sir Arthur Evans

B. The name that Evans gave to the Bronze Age civilization that he discovered.

Answer: Minoan

C. The man who utilized Evans' discovery of some tablets at Knossos to decipher the previously unknown language of Linear B.

Answer: Michael Ventris

7. Name these figures from German history, for 10 points each:

A. This "iron chancellor" of Prussia organized the unification of Germany, and then served Kaiser Wilhelm I as Germany's chancellor until he was fired in 1890.

Answer: Otto von Bismarck

B. This Prussian organized the wars of German unification as chief of the general staff from 1858 to 1888.

Answer: Helmuth von Moltke

C. This emperor, expected to be a champion of liberalism, was Germany kaiser for several months between Wilhelm I and Wilhelm II.

Answer: Friedrich III or Frederick III

8. Questions about lymphocytes, FTPE.

A. The two types of immunity regulated by lymphocytes are humoral immunity, which involves antibodies, and this type of immunity, which involves MHC.

Answer: cellular immunity (accept variants like cell-mediated)

B. Cellular immunity is mediated by this type of lymphocyte, which develops in the thymus and interacts with MHC.

Answer: T lymphocyte or T cell

C. Members of this family of cytokines, which include T-cell growth factor, can promote lymphocyte growth and proliferation.

Answer: interleukins (prompt on IL)

9. Identify the following about Sophocles' Antigone FTPE.

A. Name the prophet who warns Creon of his son's death but is too late.

Answer: Tiresias

B. Name Creon's youngest son, who is betrothed to Antigone.

Answer: Haemon

C. Name Creon's wife, who commits suicide after learning of Haemon's death.

Answer: Eurydice

10. FTPE, identify the following computer strategy games.

A. This Sid Meier game began when the spaceship *Unity* was taken over by six factions and crashed on a mysterious planet.

Answer: Alpha Centauri

B. The tag line for this series of games was "build a better Rome." The player is the governor of a Roman province who must meet certain economic and favor goals to continue.

Answer: Caesar

C. This Microsoft game was followed by a sequel, *Age of Kings*. Players begin in the Stone Age and can only build docks, houses, granaries, barracks, and storage pits.

Answer: The Age of Empires

11. Name these successors of Alexander the Great, for 10 points each.

A. This one-eyed general ruled Asia Minor after Alexander's death, and nearly seized control of the holdings of the other successors, but was killed at the Battle of Ipsus.

Answer: Antigonus I Monophthalmus or Cyclops or One-Eye

B. This Egyptian ruler, who claimed the title of "Soter" or savior, founded the library of Alexandria.

Answer: Ptolemy I

C. This general with the epithet "Nicator" took much of Antigonus's territory after Ipsus, adding it to his Babylonian realm.

Answer: Seleucus I

12. Answer these questions about the Concorde aircraft, FTPE.

A. For 5 each, name the two longest-running operators of the Concorde.

Answer: British Airways, Air France

B. What aircraft company wound up being responsible for Concorde maintenance, inheriting the role from British Aircraft Corporation and Aérospatiale?

Answer: Airbus

C. This company manufactured the engines for the Concorde. It split from the more famous automobile branch of its parent in 1971, but retained the rights to the name.

Answer: Rolls-Royce plc

13. Given lines from a poem, identify its poet for 15 points each or for 5 points if you need the title.

15: "Notice Neptune, though, Taming a sea-horse, thought a rarity, Which Claus of Innsbruck cast in bronze for me."

5: My Last Duchess

Answer: Robert Browning

15: "About suffering they were never wrong, The Old Masters: how well they understood Its human position ..."

5: Musée des Beaux Arts [BOH zarts]

Answer: W. H. Auden

14. Answer these questions about units used in particle physics, FTPE.

A. It is a unit of area equal to 10^{-28} square centimeters, used in cross section measurements, with an agricultural name.

Answer: barn

B. This quantity is measured in inverse barns; multiplying it by a cross section for a particular process gives the number of events produced. The term is also used for the amount of radiant energy given off by a star each second.

Answer: luminosity

C. This distance scale, equal to ten to the minus 15 meters, is roughly the charge radius of a proton. One name for it is that of an Italian-American physicist.

Answer: fermi (accept femtometer)

15. Identify the following dances from descriptions FTPE:

A. It was believed that people who were bitten by a certain type of spider could prevent the spider's venom from killing them only by dancing this lively Italian dance in 6/8 ("six-eight") time.

Answer: tarentella

B. The name of this "forbidden" Brazilian dance means "to whip or flog" in Portuguese.

Answer: lambada

C. In this Balinese dance, entranced performers act out a battle between a dragon and a witch. The performers stab themselves during the dance but are not wounded unless the gods are displeased.

Answer: barong

16. A river town originally known as Commerce, it grew rapidly in the 1840s and became the tenth largest city in the US by 1845, before a mob murdered the leader of the religious movement that had helped it grow.

A. First, for 10 points each, name this Illinois town and the religious leader killed along with his brother Hyrum by a mob of resident in 1845.

Answer: Nauvoo, Joseph Smith

B. Now name the religious movement led by Smith.

Answer: Mormons

17. FTPE, answer the following pertaining to the *Kama Sutra*.

A. This man translated the work in 1883 while stationed by the British Foreign Office in Trieste. He also was among the first Europeans to see Lake Tanganyika.

Answer: Sir Richard Francis Burton

B. The erotic text was compiled from various older sources by this fourth century A.D. Brahmin.

Answer: Vatsyayana

C. Burton also translated part of the *Carmina* by this Roman poet, who is known for his poems directed to Lesbia.

Answer: Gaius Valerius Catullus

18. Fun with carbon polymorphs, FTPE.

A. Also called buckyballs, these structures consist of interlocking hexagonal and pentagonal rings.

Answer: buckminsterfullerenes

B. Related to fullerenes, these structures consist of grapheme cylinders with caps containing pentagonal rings.

Answer: carbon nanotubes

C. Graphite, another carbon polymorph, is characterized by this quality, in which its properties vary by crystallographic direction.

Answer: anisotropy (accept word forms)

19. Identify the following about Baroque music

A. This Italian composer expanded the role of the orchestra in opera, composing such works as the 1607 opera *Orfeo* and 1647's *The Coronation of Poppea*.

Answer: Claudio Monteverdi

B. This Italian violinist and composer wrote variations on *La Follia*, 12 concerti grossi, and 48 trio sonatas.

Answer: Arcangelo Corelli

C. This set of four concertos, one of the earliest examples of program music, is accompanied by a set of descriptive sonnets apparently written by the composer himself.

Answer: The Four Seasons or I Quattro Stagioni

20. Name these minor European languages, FTP each:

A. Closely related to Cornish and Welsh, it is primarily spoken in the state in northwestern France from which it derives its name.

Answer: Breton

B. This West Germanic language is the most closely related to English and grew out of an area bordering the North Sea in the Netherlands and Germany

Answer: Frisian

C. More commonly known as Occitan, it is spoken mostly in southern France and is best-known for its association with the namesake literature of the troubadours in the 11th and 12th centuries.

Answer: Provençal

21. Answer the following related questions FTPE.

A. This term describes a derived or common character shared between two or more groups that originated in their most recent common ancestor.

Answer: **synapomorphy**

B. An example of a synapomorphy is this structure, a dorsal cartilaginous rod that appears along the backs of a group of animals at some point in their life cycle. In humans, it directs the development of the nervous system.

Answer: **notochord** (a synapomorphy of chordates, of course)

C. Specialized stinging cells called nematocysts are a synapomorphy of this phylum, which includes the corals.

Answer: **Cnidaria** (or cnidarians)