

The Fabulous Unnamed Chicago Tournament II: The Rage, 2003  
Tossups by Grinnell

1. Its strongest supporters were mountain tribesmen and members of the Hakka ethnic group, and it arose in the Thistle Mountain region of Guangxi province. Its leader realized, after failing the Jinxi exam a fifth time, that the two men who had visited him in a dream were God and Jesus, who had called him "younger brother." Hong Xiuquan [hung hoo-KWAN] then led a revolt to form a "heavenly kingdom" in China. FTP, name this uprising that lasted from 1850 to 1864.

Answer: Taiping rebellion

2. This company began in 1592 when a brewer's widow established the Haystack brewery. However, its current name dates back only to 1873 when the new owner renamed it after himself. Its label changed during the Cold War, from a red star to a white star with a red outline, though it has since returned to the original. The leading brewer in Europe is, FTP what beer company based in Amsterdam?

Answer: Heineken

3. His first taste of literary fame came when he won third prize in a national essay contest sponsored by *The Smart Set* magazine, in 1927. Two years later, he enrolled in university, where he chose his occupation based on a viewing of Henrik Ibsen's *Ghosts*. Two of his plays, *Candles to the Sun* and *The Fugitive Kind*, were produced in St. Louis in 1937, where one of his most famous plays was later set. His other most famous work is set in New Orleans. FTP, name this playwright of *The Rose Tattoo* and *Cat on a Hot Tin Roof*.

Answer: Tennessee Williams

4. The step height in the quantum type is determined by the constant  $h$  over  $e$  squared, and was observed in experiments using high electron mobility samples developed by G. Dorda and M. Pepper. The Nobel prize, however, was given only to Klaus von Klitzing in 1985. The classical variety was part of the researcher's doctoral work at Johns Hopkins, and was discovered in 1879. An expression of the Lorenz force, FTP, what is this transverse electric field, perpendicular to both the current and magnetic field, named for its discoverer?

Answer: Hall effect

5. It ends with the jubilant title "Brothers!" rather than continuing with the struggles of the mutineers after the events depicted in the film. Action begins with the inquiry "Who are you shooting at?", followed by the shooting of the man who "died for a spoonful of soup," Vakulinchuk. FTP, identify this film divided into sections such as "An Appeal from the Dead," "Men and Maggots," and the often-imitated montage sequence on the Odessa Steps, written and directed by Sergei Eisenstein.

Answer: Battleship Potemkin (or Bronenosets Potyomkin)

6. Early secular works include the *Capriccio on the Departure of a Beloved Brother* and the *Coffee Cantata*. This violinist, organist, and cantor at the Thomaskirche may be better known for works such as the 45 choral preludes collected in the *Orgelbuchlein*, the cantata *A Mighty Fortress is Our God*, and the *Christmas Oratorio*. FTP, identify this Baroque composer of *A Musical Offering* and the *Brandenburg Concertos*.

Answer: Johann Sebastian Bach

7. He argued before the Supreme Court in 1797's *Wye v. Hylton*, the so-called "British debts case," losing in his only appearance before that body. A cousin of Thomas Jefferson, he turned down an offer to become attorney general, served as a commissioner in the XYZ Affair, and (as a Congressman) delivered such a ringing defense of President Adams that Adams named him Secretary of State. FTP, name this Virginian who, just before Adams left office, was named Chief Justice.

Answer: John Marshall

8. Brenner, Horvitz, and Sulston won the 2002 Nobel Prize in physiology and medicine for their study of apoptosis in this model organism. It is primarily hermaphroditic, but spontaneous mutations generate males in about 1% of animals. Of the 959 somatic cells of the hermaphrodite some 300 are neurons, making it a favorite of neurology researchers. FTP, name this nematode, which was the first multicellular organism to have its genome sequenced.

Answer: Caenorhabditis elegans (prompt on early "apoptosis" or "Nobel Prize")

9. One of the disciples was cast out of heaven for dallying with a fairy maiden; another used to be a dragon. The master is an orphan who was found in a river by monks of the Golden Mountain Temple, and who is aided through his journey by Kuan-Yin. Also featuring a character who was once called "Aware-of-Vacuity", this novel's most common translation was written by Arther Waley. FTP, name this novel by Wu Ch'eng-en.

Answer: Monkey or Journey to the West or Hsi Yu Chi

10. It is often called Whitsunday because the faithful to be baptised on this day wore white garments though the priest now wears red vestments to celebrate this day. The sequence sung for Mass on this holiday is "Veni, sancte spiritus" to celebrate the descent of the Holy Spirit. FTP, identify this holy day of the Roman Catholic church that falls on the fiftieth day after Easter.

Answer: Pentecost

11. In 2001, this man wrote and directed the short "Popcorn Shrimp" on Showtime, and he may also be seen as a dancer in Fatboy Slim's "Weapon of Choice" video. However, it is as an actor that he is best known, for roles like Jacob Witting in *Sarah, Plain and Tall* and Max Zorin in *A View to a Kill*. Recently starring in *Catch Me If you Can*, FTP, name this actor who won a best supporting actor Oscar for his work in the *Dead Zone*.

Answer: Christopher Walken

12. By the time he has finished his B.A. and elementary law degrees, he realizes that it is impossible for him to succeed in Parisian society without the help of a female protector. Fortunately, his upstairs neighbor is the father of the two women whose affection he seeks, and together they hatch a plan to get him together with the old man's younger daughter, Anastasie. FTP, name this cynical boarder at Madame Vauquer's, the downstairs neighbor of Père Goriot in Balzac's novel of the same name, also appearing in *Cousin Bette*.

Answer: Eugène Rastignac (Ras-tin-YAHK): accept either name

13. A map between vector spaces of dimensions  $m$  and  $n$  is injective if and only if it equals  $n$ , and surjective if and only if it equals  $m$ . It can be computed by Gaussian elimination. For an  $n$  by  $n$  matrix, it equals  $n$  minus the dimension of the kernel; if this number is less than  $n$ , the matrix is singular and has determinant zero. It is the number of linearly independent columns of a matrix. FTP, what is this term for the dimension of the image of a linear map?

Answer: rank

14. The National Guard rebelled on March 18 when Provisional Government troops moved to seize their artillery. Workers elected their supervisors, and journeyman bakers stopped their night-work. Hailed by Marx as the first realization of his theories, this body lasted only until May 28 of the same year, when a French army under orders from Adolphe Thiers stormed the city and executed 25,000 of the rebels. FTP, what was this short-lived 1871 uprising?

Answer: Paris Commune

15. The model for this painting's central figure caught a severe cold during the modeling process, prompting her father to threaten to sue the artist. It was necessary for Elizabeth Siddall to lie in a bathtub, however, because the artist wanted everything to be real; even the flowers around the river correspond to the flowers mentioned in the Shakespearean source material. FTP, name this painting by John Everett Millais, adapted from Act 4, Scene 2 of *Hamlet*.

Answer: Ophelia

16. "He was an inch, perhaps two, under six feet, powerfully built, and he advanced straight at you with a slight stoop of the shoulders, head forward, and a fixed from-under stare which made you think of a charging bull." His story ends with Stein's hand waving "sadly at his butterflies." He dies at the hand of Doramin, regaining the honor lost when he fled the *Patna*. Known at every port and to every captain, FTP, name this titular character of a Joseph Conrad novel who lived among the natives of Patusan.

Answer: Lord Jim

17. In his final works he encouraged people to resist the welfare state by developing individual ethics. This is in accord with his notion of *bio-power*, which he theorizes that Western society has formulated. These theories appear in *The Care of the Self* and *The Use of Pleasure*, part of his planned six-volume *History of Sexuality*. FTP, name this philosopher and author of *Madness and Civilization* and *Discipline and Punish*, who died of AIDS in 1984.

Answer: Michel Foucault

18. In 1905 it broke diversion controls and created the inland Salton Sea. Until 1921, it did not technically begin until the junction of the Grand and Green Rivers in Utah. Before the Glen Canyon Dam was completed in 1963 it carried over 500,000 tons of silt and sediment to the Pacific Ocean every day, giving it the color it is named for. FTP, name this 'Red' river that flows through the Grand Canyon.

Answer: Colorado River

19. Two of its members, the Earl of Arlington and the Duke of Buckingham, were actually bitter rivals. Often denounced as pro-Catholic, the group was criticized for supporting a 1672 alliance with France, a Catholic nation, and for its conspiratorial influence on the king. FTP, name this

group of advisers to Charles II, which took its derogatory nickname from the acronym of its members' names: Clifford, Arlington, Buckingham, Ashley, and Lauderdale.

Answer: the cabal

20. Named in 1920 by Drew and Morgan, they are important in molecular biology because they are capable of deactivating DNAses that use magnesium as a cofactor. One common example is EDTA, which may be abbreviated as Y in chemical reactions. They are also used in agriculture to remove heavy metals from soil. FTP, name these polydentate ligands that can form a cyclic coordination complex with a metal ion.

Answer: chelates (accept chelating agents, chelators, etc.)

21. Fluent in at least four languages, she was one of the first Americans to translate Goethe into English. Ahead of her time in other ways, she published early reviews of George Sand and speculated about the virtues of androgyny, but an unfavorable review of Hawthorne led him to consign her to what he called a "damned mob of scribbling women." FTP, what American author edited the *Dial* before it was taken over by her associate and fellow Transcendentalist Ralph Waldo Emerson?

Answer: Margaret Fuller

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1. Questions about physics, FTPE.

A. This number is +1 for electrons, muons, and taus, and -1 for their antiparticles. It is conserved in perturbation theory but violated by instanton effects.

Answer: lepton number

B. The evaporation of one of these objects through Hawking radiation would fail to conserve lepton number.

Answer: black hole

C. If these particles are of Majorana type, their masses (recently shown to be nonzero) will violate lepton number conservation.

Answer: neutrino

2. Name these early Russian rulers, for 10 points each:

A. According to the Primary Chronicle, this Varangian was invited to rule Novgorod in 862, beginning Russia's first dynasty.

Answer: Rurik or Riurik

B. This man announced the conversion of Russia to Orthodox Christianity in 988, after a "shopping expedition" in which he considered becoming a Muslim, a Jew, or a Catholic.

Answer: Vladimir I

C. Upon his death in 1054, he established a system whereby his sons would reign over different cities, depending on their place in the line of succession.

Answer: Iaroslav the Wise

3. Their sixth album, "Hail to the Thief", will be released on June 9. FTPE,

A. Name this band fronted by Thom Yorke whose songs include "Fake Plastic Trees" and "Creep".

Answer: Radiohead

B. "Creep" appears on this 1993 album, Radiohead's first release, which also featured such songs as "Anyone Can Play Guitar" and "Stop Whispering".

Answer: Pablo Honey

C. Radiohead recently announced that they and this Icelandic group, whose most recent album is titled by empty parentheses, would provide experimental dance music for the Merce Cunningham Dance Company.

Answer: Sigur Ros

4. Name these Shakespearean characters with something in common, FTPE.

A) There's not enough poison on her lover's lips, so she uses the more traditional approach of stabbing herself with a dagger.

Answer: Juliet Capulet



B) Juliet is also the name of the woman who gets pregnant by this man in *Measure for Measure*, who spends most of that play in prison for his trouble.

Answer: Claudio

C) A character with the name of Claudio also appears in *Much Ado About Nothing*, where he attempts to woo this daughter of Leonites.

Answer: Hero

5. Name these photographers FTPE:

A) This woman photographer is most famous for her works depicting migrant workers during the Great Depression.

Answer: Dorothea Lange

B) This photographer, best known for her pictures of "freaks," utilized the "snapshot aesthetic" of unposed pictures resembling amateur photography.

Answer: Diane Arbus

C) This photographer invented "rayographs" or objects put of photosensitive paper that were then exposed to light.

Answer: Man Ray

6. Answer these questions on oddities of African political geography, FTPE.

A. Although the vast majority of its landmass is on the continent, this country's capital, Malabo, is located on an island 60 miles off shore.

answer: Equatorial Guinea or Guinea Ecuatorial (no prompting on "Guinea" :-))

B. The southeasternmost island of this archipelago, Mayotte, chose to remain with France when the others declared independence; the capital of the independent nation is Moroni.

answer: Comoros

C. This exclave of Angola is bordered by Congo-Brazzaville to the north and Congo-Kinshasa to the south and east.

answer: Cabinda

7. Name these figures associated with the election of 1876, for the stated number of points.

A. First, for 5 points, what Ohio Republican won the election after agreeing to a compromise that would end Reconstruction?

Answer: Rutherford B(irchard) Hayes

B. For 10 points, what New York Democrat outpolled Hayes in the popular vote?

Answer: Samuel (Jones) Tilden

C. For 15 points, what independent Supreme Court justice swung the election to Hayes by resigning from the electoral commission and giving the GOP a majority?

Answer: David Davis

8. I heart viruses. FTPE, answer the following.

A. This family of viruses includes the virus that causes Kaposi's sarcoma as well as that which causes chicken pox.

Answer: herpesviruses (or herpesviridae)

B. A vaccine was recently developed against this virus, which causes 95% of all cervical cancers in addition to causing genital warts.

Answer: human papilloma virus (accept HPV)

C. This virus is a co-carcinogen for nasopharyngeal carcinoma and Burkitt's lymphoma. It is also the pathogenic agent of mononucleosis.

Answer: Epstein-Barr virus

9. FTPE, given the description of an animal from Norse mythology, name it.

A) This animal, the son of Loki, was bound with the ribbon Gleipnir. He will break free at Ragnarok.

Answer: Fenrir (accept Fenriswolf)

B) This squirrel of discord runs up and down the great tree Yggdrasil, chattering insults.

Answer: Ratatosk

C) This watchdog of Hel will howl when Ragnarok approaches. In the battle, he will kill and be killed by Tyr.

Answer: Garm

10. Questions about Japanese literature FTPE.

A) This is a novel from the Heian period, which include such tales as the titular character's wife being killed by the vengeful spirit of the Lady Rokujo.

Answer: Tale of Genji

B) She is the author of the *Tale of Genji*.

Answer: Lady Murasaki Shikibu

C) This is a collection of tales about the rise and fall of one clan of warriors as they fight the Minamoto clan. Its opening paragraph, about a bell, is one of the most famous in Japanese literature.

Answer: Tales of the Heike or Heikie monogatari

11. FTPE, identify the opera from a description of its tragic ending.

A. Mimi dies of consumption as Rodolfo hangs her cloak over the window to keep out the light.

Answer: La Boheme

B. The title character sings *O terra, addio* with Radames as they await death after being buried alive in the Temple of Vulcan.

Answer: Aida

C. Turiddu is killed offstage in a duel with Alfio after Alfio finds that Turiddu has taken Alfio's wife Lola as a mistress.

Answer: Cavalleria rusticana

12. He was assassinated in 336 B.C., after conquering Phocis, defeating an alliance of Athens and Thebes, and becoming the *hegemon* of Greece. For 10 points each:

A. Name this Macedonian king.

Answer: Philip II

B. At what 338 BC battle did Philip defeat an allied army of Athenians and Thebans to take control of Greece?

Answer: Chaeronea

C. Philip's last years were full of scandal, as he married a second wife, infuriating his first (the mother of Alexander the Great) who went into exile but returned to kill her successor after Philip's death. FTP, name either wife.

Answer: Olympias or Cleopatra

13. Answer the following questions about cellular automata, FTPE.

A. Probably the most famous of all cellular automata, this two-state two-dimensional nearest-neighbor automaton was first published in *Scientific American* in 1970.

Answer: Game of Life

B. The Game of Life was developed by this Princeton mathematician, also known for his work in knot theory.

Answer: John Conway

C. This private-sector mathematician published *A New Kind of Science*, on cellular automata and other discrete systems, which has come under fire for being vague and pompous.

Answer: Stephen Wolfram

14. Answer the following questions about a certain football franchise FTPE.

A. This team, which played in the "Mistake by the Lake" until that stadium was torn down, is the only NFL team to be named after its original head coach.

Answer: Cleveland Browns (accept either name)

B. This tight end, who played for the Browns for 12 years, joined the hall of fame in 1999. He caught at least one pass in 150 consecutive games.

Answer: Ozzie Newsome

C. This Browns hall-of-famer started out as an offensive tackle, playing from 1946-59. After an injury, he became a place kicker and played from 1961-67.

Answer: Lou Groza

15. Name these poets from works, FTPE.

A) We Real Cool, To The Diaspora, The Boy Died In My Alley

Answer: Gwendolyn Brooks

B) Skunk Hour, Man and Wife

Answer: Robert Lowell

C) Black Rook in Rainy Weather, Tulips, Daddy

Answer: Sylvia Plath



16. Answer the following about European religious history FTPE.

A. This successful group in the Counter-Reformation was founded by Ignatius Loyola in the 16th century.

Answer: Jesuits

B. Defended by adherent Blaise Pascal in his "Provincial Letters," these opponents of the Jesuits advocated retreats for the laity to allow part-time monasticism.

Answer: Jansenists

C. The toleration of French Protestants granted by Henry IV with the Edict of Nantes was retracted in 1685 by Louis XIV with this new proclamation.

Answer: Proclamation of Fontainebleau

17. Name these evolutionary concepts, FTPE.

A. This type of speciation occurs when populations become geographically isolated and diverge due to differences in selection and drift.

Answer: allopatric speciation

B. The Ellis-van Creveld syndrome is common among the Amish because of this form of allopatric speciation, in which a very small subpopulation becomes separated from a large population.

Answer: founder effect

C. This condition occurs when a population has more than one allele at a locus.

Answer: polymorphism

18. Answer the following about topical folk music from the changing times of the mid-20<sup>th</sup> century, FTPE.

A. This song, which asked questions like "How many roads must a man walk down, before they call him a man?" became a cultural sensation after Peter, Paul and Mary covered it in 1963.

Answer: Blowin' in the Wind

B. This author of Blowin' in the Wind also popularized such anthems as "Where Have all the Flowers Gone" and "Turn, Turn, Turn."

Answer: Pete Seeger

C. Of the title objects of this song, Seeger sings "There's a green one and a pink one/ And a blue one and a yellow one/ And they're all made out of ticky tacky/ And they all look just the same."

Answer: Little Boxes

19. Mmm, chemistry. FTPE, answer the following related questions.

A) This term names reactions in which electrons are transferred between the participating compounds.

Answer: redox reactions

B) In this type of redox reaction, a hydrocarbon and oxygen are combined to produce water and carbon dioxide.

Answer: combustion

C) This is a redox reaction in which the oxidizing agent and the reducing agent are the same species.

Answer: disproportionation

20. Answer the following related to Italian unification, for 10 points each:

A. In what year was Italian unification achieved (you'll get five points if your answer is within 4 years)?

Answer: 1861

B. What pro-unification publication, founded in 1847 by Cavour with a name meaning "resurrection", shared its name with the movement for Italian unity?

Answer: Risorgimento

C. What monarch from the House of Savoy became Italy's first king?

Answer: Victor Emmanuel II