

TOSSUPS -- ROUND 1 CENTER OF THE KNOWN UNIVERSE OPEN/ROLLAPALOOZA 1999

1. The 20 men in it must have been in for 8 florins apiece, for they had to chip in to pay the 160- florin commission. Seems like the musketeer in red on the left side should have paid more than the one guy whose face is blocked by the black-suited captain in the center. FTP give either the proper name of this depiction of a company at arms at the moment they march off, or the common nickname inaccurately given after years of dirt and neglect to this masterpiece by Rembrandt.

Answer: **The Company of Captain Franz Banning-Cocq**, or The **Night Watch**

2. He was heavily influenced by Max Scheler, a former disciple of Edmund Husserl, and you can clearly see phenomenology used as his philosophical method in his major treatise, *The Acting Person*. But his thesis was on the concept of faith in St. John of the Cross, and his intellectual conservatism was evident in his rebuking of Hans Kung. FTP name this former quarry worker, actor, poet, and playwright who since late 1978 has had access to the exclusive vacation retreat of Castel Gandolfo and the protection of Swiss Guards.

Answer: **John Paul II** (or Karol Wojtyla; prompt on "the pope")

3. His son, Michael, was the producer of *Two Girls and a Guy* and *The Money Shot*, and figures to be the next Mr. Marla Maples. He himself has been in several films, with notable appearances as Stanford White in *Ragtime* and as himself in *When We Were Kings*. Of course, his most noteworthy contribution to filmdom are his novels that have been filmed, such as *An American Dream* (1966) and *Tough Guys Don't Dance* (1987), which he directed. For 10 points, name this American author, winner of the 1969 non-fiction and 1980 fiction Pulitzers, the latter for *The Executioner's Song*.

Answer: Norman **Mailer**

EDITOR'S NOTE: Marla Maples is one of the two famous "killer blonds" from Dalton, GA, a stone's throw from Chattanooga.

4. Celgene Corporation reports that this drug may be able to suppress tumor necrosis factor alpha, an immune system compound that, if overproduced, can lead to severe inflammation in autoimmune diseases such as Crohn's disease and rheumatoid arthritis. It is already in use against complications of leprosy, and can have tranquilizing effects. For 10 points, identify this drug with chemical formula C₁₃H₁₀N₂O₄, which became notorious when pregnant women used it for those tranquilizing effects in the 1950s and 60s, leading to severe birth defects.

Answer: **thalidomide**

5. Ancient astronomers wrote of Phosphorus, which appeared in the morning, and Hesperus, which was visible in the evening. Then they realized that they were one and the same. The object in question has a nearly circular retrograde orbit and an atmosphere composed mostly of carbon dioxide but covered with sulfuric acid clouds. FTP name this planet, with a diameter only 400 miles smaller than the earth's.

Answer: **Venus**

6. Excluding the smaller Red River cession and the Gadsden Purchase, the U.S. acquired its territory west of the Mississippi in four big chunks: the Louisiana Purchase, the annexation of Texas, the Oregon Country cession, and the Mexican cession. Only one state includes land acquired in all four deals. FTP name this sparsely populated state, home to Devil's Tower National Monument and Grand Tetons National Park as well as most of Yellowstone.

Answer: **Wyoming**

7. Malik Shah appointed him one of a commission of eight to revise the calendar. His astronomical tables and his book on algebra were very influential, but his other work was never all that popular in his homeland. Only fragmentary manuscripts survived, but Edward Fitzgerald was able to take 101 of his poems and translate and enhance them. FTP name this Persian poet whose specialty was short quatrains, or *rubais*.

Answer: Omar Khayyam

8. From 1920-1924, he served as Governor-General of New Zealand. In 1914, he was given command of the Grand Fleet of Britain. In 1916, he commanded the British forces at the WWI Battle of Jutland. FTP, name this admiral.

Answer: John Rushworth Jellicoe (Earl Jellicoe)

9. After his death of cancer in 1925, former rivals fought to claim his legacy; in fact, in 1950 his widow was made a vice-chairman of the Peoples' Republic of China. He became an American citizen in Hawaii, trained as a physician in British schools in Hong Kong, and spent some time in exile in Canada before espousing his "Three Principles" and forming the Kuomintang. FTP name this Chinese nationalist leader, briefly President of China.

Answer: Sun Yat-Sen

10. A prolific writer in the fields of hysteria and the medical and legal ramifications of hypnotism, his account of Soeur Jeanne des Agnes' hysteria over an unrequited love of a Loudon priest may have inspired Aldous Huxley's *The Devils of Loudon*. Ironically, he was shot by a former patient, who claimed he had hypnotized her against her will, causing her loss of sanity. For 10 points, identify this 19th century French neuroscientist, today best remembered for the condition he identified in 1885, which is characterized by motor and phonic tics.

Answer: Georges Gilles de la Tourette

11. Her first name is Margaret, but she goes by her real middle and last names. Most observers agree she deftly outmaneuvered the other killer blond from Dalton, GA, Deborah Norville, even though Norville would up taking her job; she wound up instead with an Emmy in 1995 and her current duties as host of MSNBC's *Time and Again* and cohost of *Dateline NBC*. FTP name this Indianapolis native, still best remembered for her 13-year stint as co-anchor on *The Today Show*.

Answer: Jane Pauley

12. His best friend was Dain Waris, son of the old chief Doramin. He served as a trading post agent at Patusan, an isolated East Indian trading post. In facing Doramin's justice he regains the honor he lost when he and his crewmates had abandoned the sinking ship Patna. FTP I've described the guilt-ridden title character of what novel, published in 1900, by Joseph Conrad?

Answer: Lord Jim

13. He appears in Eliot's *The Waste Land*. Even in the underworld he retained his prophetic gifts, according to the *Odyssey*. Later legend said he lived for seven or nine generations, dying after the expedition of the Seven Against Thebes. FTP name this blind seer, who had once killed the female of two coupling snakes and had briefly been turned into a woman.

Answer: Tiresias

14. A native of Bombay, he studied in Vienna and held his first major post in Montreal. Noted for forceful interpretations of large-scale romantic compositions, he is considered the greatest modern interpreter of Berlioz. FTP name this conductor, who still serves as director of the Israel Philharmonic and spent 13 years as conductor of the New York Philharmonic.

Answer: Zubin Mehta

15. His efforts to extend his doctrine of caesaropapism to dogma as well as governance were largely unsuccessful; instead of reconciling the Monophysites to the church he wound up lapsing into heresy himself. His efforts to fight the Persians and subdue the marauding Slavs and Bulgars also bombed, and his efforts to increase state revenues led to the Nika riot that almost overthrew him despite the quality of his generals, Narses and Bellisarius. FTP name this Byzantine emperor, who had better luck with his efforts to codify Roman law.

Answer: **Justinian I** or the **Great**

16. In *Second Stage* she stressed the importance of fathers in the family, and in *The Fountain of Age* she tackled the effect of aging on women. She recounted her years as a leader of the women's movement in *Roe v. Wade: It Changed My Life*. FTP name the author of the seminal 1963 work *The Feminine Mystique*.

Answer: Betty Friedan

EDITOR'S NOTE: In the last sentence, pun very much intended.

17. Lesser known versions of the legend include Moliere's *The Stone Feast*, Prosper Merimee's *Les Ames du Purgatoire*, and Thomas Shadwell's *The Libertine*. Jose Zorrilla y Moral borrowed extensively from the French sources for his 1844 version, which is still performed annually on Halloween in Spain. For 10 points, identify this legendary figure, created in 1630 by Tirso de Molina, and namesake of a Mozart opera.

Answer: Don Juan

18. The Kentucky and Virginia Resolutions were responses at the state level to this, or more accurately these. Thomas Cooper, William Duane, and Matthew Lyon were among those tried under the only one ever enforced by the Adams administration. FTP name these four laws enacted in 1798, allegedly to halt French influence but really more to halt the rise of Thomas Jefferson.

Answer: the Alien and Sedition Acts

19. For quarks they're such things as baryon number, strangeness, charge, hypercharge and t3. For electrons they're such things as orbital angular momentum and spin angular momentum. FTP, what are these numbers that no two fermions can share a unique set of?

Answer: **quantum** numbers

20. As a noun, the OED defines it as a low-stunted tree, or a cancellation of an appointment, or the itch, or a particular breed of cattle, or a prostitute, or, in athletics, a player of lesser ability. However, it was more recently defined, by Lisa Left-Eye Lopez et al., as "a guy who can't get no love from me, hanging out the passenger side of his best friend's ride, trying to holler at me." For 10 points, what's the common word, which as a verb might involve the use of Brillo?

Answer: scrub

21. By land area, it's the largest city in Tennessee. It's the home of three plants of some fame throughout the world as X-10, Y-12, and K-25, dating back to the original army map grid from 1942. Some of the historic landmarks include the graphite reactor, finished within a matter of weeks after Chicago Pile 1, the Tower Shielding Facility, the Health Physics Research reactor and the High Flux Isotope Reactor. FTP, what is this city of about 27,000 people located 25 miles west of Knoxville and home to the largest of the Department of Energy's 5 multipurpose laboratories?

Answer: **Oak Ridge**

– **ROUND 1 CENTER OF THE KNOWN UNIVERSE OPEN/ROLLAPALOOZA 1999**

Hail and farewell, Dysfunctional Family Circus. After 5 years, Charlie's favorite webpage has bowed so much to the threatened legal repercussions as to the personal wishes of an offended Bil Keane. So how do we work this into a legitimate academic bonus? Well, DFC #500 features little PJ staring at a clown on a TV screen, and the captions accepted include tons of literary references. Name the author from the caption parodying their work FTPE; if you need the title of the work being parodied, you'll get only 5 pts.

(1a) "It was the best of mimes, it was the worst of mimes"

(1b) *A Tale of Two Cities*

Answer: Charles Dickens

(2a) "...and as I lay my glazies on that horrible smelly old clown the strains of Ludwig Van's glorious Ninth filled my gulliver, O my brothers, and I viddied myself taking a britva to his horrible smelly clown yarbles. I was cured!"

(2b) *A Clockwork Orange*

Answer: Anthony Burgess

(3a) "Stop all the clowns, shut up the melonheads/lock the howling doggies in the backyard shed/dispose of the oing, and flush all the crack/the DFC is gone and it won't be coming back."

(3b) "Sonnet: Stop All the Clocks"

Answer: W.H. Auden

2. Answer the following questions about this statement: x to the $n + y$ to the $n = z$ to the n has no non-zero integer solutions for x , y and z when n is greater than 2.

A. What mathematician articulated this?

Answer: Pierre de Fermat (Fermat's Last Theorem)

B. This mathematician who also found the natural logarithm provided a shaky proof for when $n = 3$.

Answer: Leonhard Euler

C. He later provided a more solid proof for when $n = 3$, as well as one for $n = 4$. He also predicted the orbit of the asteroid Ceres by his least squares approximation method.

Answer: Johann Carl Friedrich Gauss

3. Name the famous Russian from works, 30-20-10:

(a) The monograph *On the Analogy of Arsenical with Phosphoric Acid*

(b) The symphonic poem *In the Steppes of Central Asia*

(c) The opera *Prince Igor*

Answer: Aleksandr Borodin

4. Given a prime example of bossism in early 20th century America, name the city they ran FTPE:

(a) E.H. Crump

Answer: Memphis

(b) Thomas J. Pendergast

Answer: Kansas City (MO)

(c) Frank Hague

Answer: Jersey City

5. Here are some more parody gems from DFC #500, which may be the last of the breed. Given a caption, name the famous film being referenced FTPE:

(a) It's not Bil riding naked on an atomic bomb waving a cowboy hat and shouting "Yeeeeee-Hah!" ... but it will have to do.

Answer: Dr. Strangelove, or How I Learned to Stop Worrying and Love the Bomb

(b) "A planet where clowns evolved from men?!"

Answer: Planet of the Apes

(c) Even as a child, little Pink found solace in the TV.

Answer: Pink Floyd's The Wall

6. For 10 points each, name these German military geniuses.

A) The Prussian general whose theories led to the decisive victory over Austria at Koniggratz.

Answer: Helmuth Karl Bernhard von Moltke

B) The general who based his plan to invade France during World War I on Moltke's theories.

Answer: Alfred von Schlieffen

C) The colonel whose diligence and attentiveness to detail made Stalag 13 the center of prisoner-of-war escapes in Hogan's Heroes.

Answer: Wilhelm Klink

7. 30-20-10, name the animal.

30) In both Greek and Roman folklore, this animal was reputed to change its gender at will. Thus, during the periods when it was male, if you could catch it and cut off its testicles, you could grind them into a fine powder, which would then cure cramps. Yours, obviously, not its.

20) According to medieval Christians, its call sounded so much like a human voice that it would lure men to their deaths at the hands, well, paws, of this carnivorous predator.

10) There are two genera and three species of this animal: the striped and brown are in one species, while the most common, the spotted, is *Crocuta crocuta* and lives in sub-Saharan Africa, but should not be confused with the African hunting-dog

Answer: hyena

8. The last of the Wars of Religion in France was the 1587-1589 War of the Three Henrys. For 10 points each, identify each of the three Henry's, and no, answering "Henry, Henry, and Henry" is not enough information.

Answer: King Henry III, Henri I of Lorraine (or the duke of Guise), and Henry of Bourbon (King of Navarre, accept Henry IV)

9. Name the author from works, 30-20-10:

(a) The unfinished 10-volume novel, *The Days of Florbelle or Nature Unveiled*, the two finished volumes of which were burned after his death by his eldest son, and *Dialogue Between a Priest and a Dying Man*, in which he declared himself an atheist.

(b) The novels *Justine* and *Juliette*, which led to his 2nd confinement in the mental asylum at Charenton.

(c) *120 Days of Sodom*, describing four libertines' nonstop orgy at the expense of several kidnap victims in such infamy that the author's name was immortalized in a psychological term.

Answer: the Marquis de Sade

10. FTPE answer the following about the Mughul Empire:

(a) This prince from central Asia founded the Mughul Empire in A.D. 1526.

Answer: **Babur** (accept Babar)

(b) Babur's grandson, he ruled from 1556 to 1605 and not only led the empire to its widest influence but also established its distinctive government structure.

Answer: **Akbar** the Great

(c) In the empire's later years, these Hindu warriors of western India revolted and seriously weakened the empire.

Answer: **Marathas**

11. For 5 points each, given a celebrity, name the Muppet movie in which they appear:

A. Orson Welles

Answer: **The Muppet Movie**

B. Brooke Shields

Answer: **The Muppets Take Manhattan**

C. Michael Caine

Answer: **The Muppet Christmas Carol**

D. Diana Rigg

Answer: **The Great Muppet Caper**

E. Tim Curry

Answer: **The Muppet Treasure Island**

F. F. Murray Abraham

Answer: **Muppets from Space**

12. Identify these works that John Stuart Mill wrote of his own free will.

A. This 1859 tome treats the nature of freedom and how it best achieves itself.

Answer: **On Liberty**

B. This 1863 work examines the philosophical doctrines and work of his father James Mill and of Jeremy Bentham.

Answer: **Utilitarianism**

C. This 1869 work was written with the aid of his wife Harriet Taylor.

Answer: The **Subjection of Women**

13. For ten points each, name the Mark Twain work with the following characters:

(a) Tom Canty

Answer: **The Prince and the Pauper**

(b) Hank Morgan (AKA Sir Boss)

Answer: **A Connecticut Yankee in King Arthur's Court**

(c) Daniel Webster

Answer: **The Celebrated Jumping Frog of Calaveras County**

EDITOR'S NOTE: That was the name of the frog.

14. Identify the following elements from isotopes used in the nuclear industry, 5 points each and a bonus 5 for all 5.

1) Mass number 137. This is a fission product and is often used in calibration sources as well as check sources as a gamma ray standard. It has one gamma emission at an energy of 662keV.

A: cesium

2) mass number 60. Another fission product this is the isotope most commonly used for food irradiation. Also used in check sources and calibration devices. It has two equal gammas at 1.17 and 1.33 MeV.

A: cobalt

3) Mass number 235. This isotope is enriched to about 4 weight percent in most commercial reactor fuel in the United States. Its an alpha emitter with energy of 4.397 or 4.367 MeV.

A: uranium

4) Mass number 239. Use of this element in civilian applications is limited because of proliferation concerns. By the end of cycle, however, most commercial reactors get about 25% of their power from fission of this isotope. It decays via three different energy alphas.

A: plutonium

5) Mass number 232. This isotope could be used in a thermal reactor to breed a fissile uranium-233 fuel. Its also used in Coleman lamp mantles. It decays via a 4 MeV alpha.

A: thorium

15. Identify the author from works, 30-20-10.

(30) *The Transmigration of Timothy Archer*, *Humpty Dumpty in Oakland*

(20) *Martian Time-Slip*, *Confessions of a Crap Artist*

(10) *We'll Remember it for You Wholesale*, *Do Androids Dream of Electric Sheep?*

Answer: Philip K(indred) Dick

16. Given the name of the title characters, name the work for 10 points each. If you need the author of the work, you'll earn 5 points.

A) 10 points - Jean Latour

5 points - Willa Cather

Answer: Death Comes for the Archbishop

B) 10 points - Mistresses Ford and Page

5 points - William Shakespeare

Answer: *The Merry Wives of Windsor*

C) 10 points -- Frankie Addams

5 points - Carson McCullers

Answer: *The Member of the Wedding*

17. According to Richie Phillips, General Counsel for the MLB Umpires, these strike/resignation talks are all about "respect". OK, Richie, fine. For 15 points each, name these umpires, 2 of the 7 enshrined in the Baseball Hall of Fame.

a) An AL umpire from 1936-1951, he was the first man to be honored in three different halls of fame. A charter member of the NFL hall of fame, he was named the NFL's all-time offensive tackle in 1969.

Answer: Cal Hubbard

b) Generally regarded as the greatest umpire of all time, he served from 1905-1940, at home plate for the first 16 years, due to his superior ability on balls and strikes. In fact, he originated arm signals for balls and strikes, out of deference to hearing-impaired players.

Answer: Bill Klem

18. Given the area of expertise, name the muse from Greek mythology whose provenance it was FTP each.

A. Sacred song and dance

answer: **Terpsichore**

B. Sacred poetry

answer: **Polyhymnia**

C. Tragedy

answer: **Melpomene**

19. In thermodynamics we are forced to study many different cycles. Answer the following about these cycles for ten points each.

1) This is the ideal cycle. it is 100% efficient and totally reversible. It is made of a pump, a boiler a turbine, and a condenser. What's this cycle named for a French engineer?

A: **Carnot** cycle

2) This cycle can be thought of as the applied Carnot cycle. It is used instead of a Carnot cycle because pumps can much more easily handle a totally condensed liquid than a mixture of liquid and gas. What is this simple model of a steam power plant?

A: **Rankine** cycle

3) Taking the Rankine cycle and using a single phase gaseous working fluid yields this cycle. Examples are open and closed cycle gas turbines utilizing internal combustion engines. What's this cycle?

A: **Brayton** cycle

20. Name these psychology terms FTPE:

a) Chronic inability to decide or act independently

Answer: **abulia**

b) Equivalent of the Oedipus complex in a girl or young woman

Answer: **Electra** complex

c) Unconscious redirecting of feelings or urges to a more acceptable person or thing

Answer: **displacement**