

1997 Paul Bunyan Masters
Round 9

Toss-up Questions

1. The decay of K mesons into two or three pi mesons commits one, and Chen Ning Yang and Tsung-Dao Lee won a Nobel Prize for their study of how they occur in weak interaction beta decay. Among the theories propagated to explain them are the Kobayashi-Masakawa Theory, which describes how certain effects of quantum mechanics among the weak forces between quarks would produce them, and the theory of a "Superweak force", observable only in the K-meson system or in the neutron's electric dipole moment. For 10 points name these occurrences in which the weak nuclear force seems to defy the current laws of physics by breaking the conservation laws of parity and charge conjugation in nuclei decay.

Answer: **CP Violations**

2. (Literature) He is elderly in the first book of the series, middle-aged in the second, in the third, is an adolescent in the fourth and a youth in the fifth. The fourth and fifth books were written in 1840 and 1843, to help the author pay off debts, though the character had been killed off, facing the westering sun, in 1826's *The Prairie*. FTP, name this lead character in a series of novels by James Cooper.

a: **Leather-Stocking** or **Natty Bumppo**

3. (History) Over many generations, members of this family held the title of Grand Duke of Tuscany. This family also produced Popes Leo X, Clement VII and Leo XI, as well as two queens of France. Such was the power, FTP, of what famous family, which ruled Florence from the 15th Century until 1737, and whose French-queen daughters were Catherine and Marie?

a: **de Medici**

4. (Current events) Her daughter Susan Ruby Paxon is the first child born to parents who are both members of the U.S. Congress. She recently quit Congress to host the new CBS Saturday morning news program, probably helped into that job by the charisma she displayed delivering the keynote address at the 1996 Republican National Convention. FTP, name this moderate New York Republican.

a: **Susan Molinari**

5. (General Knowledge) Holy Roman Emperor Frederick II issued one in 1213, and King Andrew II of Hungary gave one in 1222. But the term is most often associated with the proclamation of Holy Roman Emperor Charles IV, detailing the process by which future emperors were to be selected. FTP, name this type of edict with a special metallic seal, which sounds like a Chicago NBA player on his 50th wedding anniversary.

a: **Golden Bull**

6. (Geography) Mindelo is an important coaling station for ships, and transatlantic flights are serviced at an airport on Sal Island. This archipelago, composed of the Barlavento and Sotavento island groups, received independence from Portugal in 1974, partly through the efforts of the PAIGC (note: just rattle off the letters) party. FTP,

1 3. (Literature) Poprischin's (pope-RIH-shin) obsession with Sophie, the radiant daughter of his official superior, provokes a single-mindedness which leads the mild-mannered government clerk to see irrationally the humiliations thrust upon him, and eventually to "overhear" two dogs discussing his haplessness. Eventually, he finds a rationale for his life by believing himself to be the exiled King of Spain. FTP, name this landmark short story by Nikolai Gogol.

a: Diary of a Madman

1 4. (History) Originally friars at a church medical facility in Jerusalem, they were reconstituted as a military order to protect pilgrims to the Holy Land. Important warriors of the Crusades, they much later became famous for their long defense of Rhodes against a Turkish siege, for which the Holy Roman Empire granted them sovereignty over the island of Malta. FTP, name this organization, named for a general type of medical facility, or alternately for the specific Jerusalem medical facility where it began.

a: the Knights Hospitallers or the Knights of St. John

1 5. (Current Events) He had part in another record when the Space Shuttle mission which began November 19, 1996 was delayed in its return, becoming the longest Shuttle mission ever. But just by blasting off, this astronaut was a record setter, becoming the first to fly six Shuttle missions, the first to fly all five Shuttles and, at age 61, the oldest person ever to go into space (alive). FTP, name this American astronaut.

a: Dr. Story Musgrave

1 6. (General Knowledge) The stages of existence he defined were the aesthetic, the ethical and the religious. Development through these stages involved realization of the "existential dialectic," which was expounded upon in this philosopher's aesthetic works such as *Stages on Life's Way* and *The Concluding Unscientific Postscript*. FTP, name this Danish philosopher, who also wrote *Philosophical Fragments* and *Either/Or*.

a: Soren Kierkegaard

1 7. (Geography) The now-obscure Molucca (Mah-LOO-kah) chain of islands was once famous for spices. To the southwest, Flores, Sumbawa and Lombok separate a tourist paradise from a scene of genocide. FTP, these are some of the smaller islands of what country, whose sixth-largest island, Timor, is the site of bloody human rights abuses by its U.S.-backed government?

A: Indonesia

1 8. (Popular Culture) This film is based upon the novel *D'Entre les Morts* [dahn-truh lay more], written specifically for the film's director, Alfred Hitchcock. Starring Kim Novak as both Madeleine Elster and Judy Barton opposite James Stewart as detective Scottie Ferguson, for ten points name this movie whose title is related to Scottie's fear of heights?

A. Vertigo

1 9. (Sports) He joined the Detroit Tigers in 1925, but they would not allow him to throw

the screwball. His career sufferering, his contract was sold to the New York Giants in 1928, who let him throw it on the way to a 16-year career. For ten points, name this pitcher who in 1934's all star game struck out Babe Ruth, Lou Gehrig, Jimmie Foxx, Al Simmons, and Joe Cronin in succession.

A. **Carl Hubbell**

20. (Fine Arts) Music in this genre typically uses only three chords, often dominant sevenths. Verses are traditionally 12 measures long, with the first line of lyrics repeated and the singer engaging in call-and-response with a guitar. FTP, name this genre of music that influenced all later 20th century American forms.

A: **the Blues**

21. James Tyrone is a former actor whose childhood poverty and concern over money had spoiled his talent as an actor; Mary, his wife, is addicted to morphine; Jamie, their eldest son, is a spendthrift profligate; and Edmund, their youngest, is dying of tuberculosis. This family is the subject of, for 10 points, what play whose action takes place in one warm August day in 1912, one of the most famous works of Eugene O'Neill?

Answer: **Long Day's Journey into Night**

22. (Science) The Twyman-Green variety is used for testing lenses and prisms. The Fizeau-Laurent surface variety reveals departures of polished surfaces from a plane. The Fabry-Perot or variable-gap variety can be used to reveal hyperfine structures in line spectra. Finally, the Michelson variety was used to disprove the existence of the lumiferous ether. For ten points, name this optical instrument.

A. **(Optical) interferometer**

23. (Literature) Much of his fiction, including short stories such as "The Terminal Beach" and novels such as *The Drowned World* and *The Crystal World*, are known for their apocalyptic feel. For ten points, name this British author best known for his novels *Crash* and *Empire of the Sun*.

A. **James G. Ballard**

24. (History) His army career started in 1921 as a stenographer. Eventually rising to the sergeant, in 1933 he led the 'sergeants' revolt', deposing Carlos Manuel de Cespedes [sayce-pay-days], and he held power until 1944 when he resigned and lived in Florida for a while. For ten points, name this strongman who regained power in his native country in 1952 until Fidel Castro deposed him in 1959.

A. **Fulgencio Batista (y Zaldivar)**

25. (Current Events) The rubber strips, tin foil, wood sticks, and adhesive tape found by W.W. Brazel on his Sheep Ranch fifty years ago are the subject of a report to be issued by the Air Force this week. Name this location in Southwestern New Mexico which has obtained cult status (and tourist dollars) because of a supposed 1947 alien landing, FTP.

a: **Roswell**

26. (General Knowledge) A reedlike sedge of the genus *Cyperus*, it was used to make clothing, baskets, and sails for ships. The location of Alexandria in the swamps where this grew wild helped it to maintain an intellectual monopoly over the Mediterranean world. FTP, identify this plant which could be pressed and dried into the best writing surface known outside of China.

a: **Papyrus**

27. (Science) During its two earliest epochs, named for localities in Russia, an "explosion" of multicellular life produced creatures that can't be placed in any living phylum, as well as representatives of every animal phylum we know today. FTP, name this subject of Stephen Jay Gould's book, *Wonderful Life*, the first period of the Paleozoic era.

A: **the Cambrian period**

28. (Literature) In her second nonfiction work, the essay collection *High Tide in Tucson*, this bestselling author speaks openly about her socialist politics. Her novels are usually set in eastern Kentucky or Arizona and often reflect the theme of cross-cultural contact. FTP, identify this author of *Animal Dreams*, *The Bean Trees*, and *Pigs In Heaven*.

a: **Barbara Kingsolver**

29. (History) President Truman vetoed it, but that failed to stop passage of this bill amending much of 1935's Wagner Act. Provisions include requiring unions to give 60 days' notice before a strike and authorized federal injunctions when a strike imperiled national safety. For ten points, name this 1947 act named for the two men who sponsored it.

A. **Taft-Hartley Act** or **Labor-Management Relations Act**

30. (Current Events) She regained the office of Prime Minister, after the former officeholder, Necmettin Erbakan, stepped down after threats of a military coup. For ten points, name this person who was originally elected as Prime Minister of Turkey in 1993.

A. **Tansu Ciller**

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Bonus Questions

1. (30 - science) Two statements, p and q, satisfy the conditional statement "if p then q." Identify by common name the following arguments (which may be valid or invalid) made from this statement, FTP each.

- a) "not q" implies "not p" A: modus tollens (valid)
b) "q" implies "p" A: the Fallacy of Affirming the Consequent (invalid)
c) "p" implies "q" A: modus ponens (valid)

2. (25 - literature) Identify the group of novels to which the following sets of individual works belong, for the stated number of points. Less points are awarded if the author is needed.

- a) FTP (titles) -- Redgauntlet, Kenilworth, Quentin Durward
F5P (author) -- Sir Walter Scott
A: the Waverly Novels
b) F15P (titles) -- Framley Parsonage, The Warden, Barchester Towers
F10P (author) -- Anthony Trollope
A: the Barsetshire Novels

3. (30 - history) FTP each, identify the war from one or more of its major provoking incidents.

- a) a quarrel between the Sicilian cities of Messina and Syracuse
A: the First Punic War
b) The Defenestration of Prague
A: the Thirty Years War
c) The Essex Case and the Chesapeake Affair
A: the War of 1812

4. Given the years he served name the Vice president, 10 point each; if you need another clue about him, you'll only get 5 points.

- a. 10 pts: 1824-1832
5 pts: This South Carolina senator served under John Quincy Adams and Andrew Jackson. Famous for his falling out with Jackson, he would later propound the doctrine of Nullification.

Answer: John C. Calhoun

- b. 10 pts: 1856-1860
5 pts: After serving under James Buchanan this man made an unsuccessful run for the Presidency on the National Democratic Ticket. He would later serve as a general in the Confederate Army and as the Confederacy's Secretary of War.

Answer: John C. Breckinridge

- c. 10 pts: 1925-1929
5 pts: After serving as a general in WWI this man was appointed to the War Reparations board, where he designed the plan that bears his name to stabilize the German economy. For this he won a Nobel Peace prize in 1925.

Answer: Charles Dawes

5. (30 - General Knowledge) Answer the following about a peculiar area of law, FTP each.

a) This is a written order issued in the name of a sovereign or state in connection with a judicial or administrative proceeding; its use has been limited since the 18th Century.

A: **writ**

b) This kind of writ has the sole purpose of releasing an individual from unlawful imprisonment.

A: **habeas corpus**

c) This type of writ directs the performance of ministerial acts.

A: **mandamus**

6. (30 - geography) In which of the four cardinal directions (north, south, east, west) would you predominantly travel to take a straight-line course between the following pairs of cities; ten points per correct answer (largest world city under each name assumed)

a) Manila to Tokyo

A: **north**

b) Niamey to Ndjamena (juh-MEAN-uh)

A: **east**

c) Brisbane to Sydney

A: **south**

7. (20 - Popular Culture) FTP each, identify the following two 1997 Pulitzer Prize-winning works.

a) This book by Frank McCourt, winner of the Biography prize, is a memoir of his childhood life in Ireland with his sister.

A: **Angela's Ashes**

b) This jazz work by Wynton Marsalis became the first jazz composition to win a Pulitzer Prize for music.

A: **Blood on the Fields**

8. (25 - Sports) F5P per correct placement, put the three legs of horse racing's triple crown in chronological order of their running during a calendar year.

A: **Kentucky Derby, Preakness, Belmont Stakes**

and, F10P, name the horse that had a chance in 1997 to be the first triple crown winner since 1978, but lost the Belmont Stakes by a head.

A: **Silver Charm**

9. (30 - fine arts) Identify the composer from works on a 30-20-10 basis.

30: the opera Genoveva

20: Woman's Love and Life, Poet's Love

10: Spring Symphony (1841), Rhenish (or Third) Symphony

A: **Robert Schumann**

10. (20 - religion) FTP each, name the two major geographic divisions of Jewish people, one consisting of Jews whose forbears lived in the Iberian region in the Middle Ages, and one made up of those who lived in Germanic lands at that time.

Sephardim and Ashkenazim (accept Sephardic and Ashkenazic)

1 1. (25 - social science) Identify the following obliquely related terms, for the stated number of points.

a) FTP; This is the study which determines a person's traits by reading the bumps and contours of the head.

A: **phrenology**

b) F15P; This is the ratio of the breadth of the head to its length, heavily used in anthropology and anthropometry.

A: **the cephalic index**

1 2. (30 - science) Light of wavelength 500 nanometers and frequency 60 terrahertz, travelling in a vacuum at speed c , passes perpendicularly through a boundary into a medium of index of refraction 2. FTP each, calculate the light's speed (in terms of c), wavelength (in nanometers) and frequency (in terrahertz) in the new medium; the index of refraction of a vacuum is 1. (10 seconds)

A: **speed: $c/2$** (read "c over 2" or "one-half c")

wavelength: 250 nanometers

frequency: 60 terrahertz

1 3. (30 - literature) Identify the following epics from a brief description on a 5-10-15 basis.

a) F5P; Prince Arjuna receives counsel from Krishna on a field of battle between the Kauravas and the Pandavas.

A: **the Bhagavadgita** (prompt for more specific on **Mahabharata**)

b) F10P; The title character is a prince of the Geats who succeeds King Hygelac and is mortally wounded battling a dragon.

A: **Beowulf**

c) F15P; It centers largely on the tales of the hero Rostam, as well as the acceptance of Zoroastrianism faith and the invasion of Alexander the Great.

A: **the Shah-Nameh** or the **Book of Kings**

1 4. (30 - history) Identify the following contemporaneous caliphates of Islam from their dates of existence and the areas they ruled, FTP each.

a) This caliphate ruled the Persian region from 749 to 1258 after defeating the Umayyads.

A: **the Abbasid** dynasty or the **Caliphate of Baghdad**

b) This caliphate was established in Spain by an escaped member of the Umayyad family; it lasted from 780 to 1031.

A: **the Caliphate of Cordoba** or **Western Caliphate**

c) This caliphate ruled in Africa, Syria and Egypt from 909 to 1171.

A: **the Fatimid Caliphate**

1 5. (30 - current events) So far, 1997 has been a good year for firsts involving women. On a 5-10-15 basis, identify the following.

a) F5P; First female Secretary of State, appointed by Bill Clinton to replace Warren

Christopher.

A: **Madeleine K. Albright**

b) F10P; First disabled doll in the Barbie collection.

A: **Share-a-smile Becky**

c) F15P; First woman to pitch in a regular-season professional baseball game, for the Saint Paul Saints of the Northern League.

A: **Ila Borders**

16. (25 - general knowledge) Answer the following about meteorological scales, for the stated number of points.

a) FTP; What is the highest rating on the Fujita scale, which measures tornado strength?

A: **5**

b) F15P; What is the name for the scale which measures wind speed on a gauge running from 0 to 12?

A: **the Beaufort scale**

17. (Geography 30) Off the northern coast of Venezuela are three islands that geography buffs can identify with the acronym ABC. Two are the largest members of the Netherlands Antilles and the third is a separate Dutch possession. FTP apiece, identify these three islands, whose economy is based on oil and tourism.

A: **Aruba**, **Bonaire**, and **Curacao** (koo-ah-SOW)

18. (Pop Culture) Name these antique computer systems from a descriptions, for ten points each.

A: Commodore's predecessor to the C-64, its name came from the initialism of its video interface chip.

A: **VIC-20**

B: This computer was actually an extension of the Coleco game console, and included a word processor in read-only memory.

A: **ADAM**

C: These Apple-II clones were eventually taken off the market after various patent-infringement lawsuits.

A: **Franklin**

19. (Sports) On June 12, Major League Baseball had its first interleague game. Answer these questions about it for the stated number of points.

a. For five points each, which two teams met in this first game?

A: **San Francisco Giants** and **Texas Rangers** (accept either city or nickname)

b. For five more points each, which two players threw the ceremonial first balls of the game?

A: **Willie Mays** and **Nolan Ryan** (accept "the Say Hey Kid" in lieu of Willie Mays)

c. For a final ten points, name the San Francisco pitcher who was the winning pitcher for the game.

A: **Mark Gardner**

20. (Fine Arts 30-20-10) Identify the country from the musical clues.

(30) The accordion-based dance music genre *forro* comes from its northeastern region.

(20) In the 1960s and 1970s, its military government arrested Gilberto Gil and Caetano Veloso, the biggest stars in its emerging popular musical movement called *tropicalia*.

(10) Its best-known genre of music is the samba.

a: **BRAZIL**

21. (Religion 30-20-10) Identify the heritage of these mythologies given figures from them, 10 points each. For example, Zeus, Cerebrus, and the Fates, would be "Greek".

A. Arawn, Dewi, Don.

a: **Welsh**

B. Voltan, Zotz, Mitnal

a: **Mayan**

C. Saule, Velu Mate (Vee-loo Maa-te), Zemes Mate

a: **Latvian**

22. (Science 20) Individual mushrooms or blades of grass may look like separate organisms, but in fact may be genetically identical outgrowths of the same underground network. Biologists solve the problem of defining "individuals" by using separate terms for the visible, well-defined part and for the entire interconnected system. FTP apiece, give these two five-letter terms.

A: **Ramet** and **Genet**

23. (Literature 30) Identify these books by Vladamir Nabokov 5-10-15

a. (5) Chessmaster Luzhin's life becomes a frightening parallel to his chess game.

A: **the Defense**

b. (10) Prisoner Cincinnatus C is sentenced to death for the crime of "Gnostic Turpitude," but at the moment of his execution, he wills his captors, and the entire world, out of existence.

A: **Invitation to a Beheading**

c. (15) A department store worker plots to drown his rich uncle and marry his young wife who has seduced him out of boredom. An prosperous invention by the uncle causes the wife to abandon the plan, but she dies suddenly from pnemonia, and the plan is never carried out.

A: **King, Queen, Knave**

24. (History 30-20-10) Identify the U.S. president.

(30) An open white supremacist, he ordered the racial segregation of the federal government after Congress refused to pass a measure curtailing the rights of African-Americans.

(20) He ordered American troops into Russia as well as several Latin American countries, supported the Espionage and Sedition Acts curtailing civil liberties, and refused to pardon Eugene V. Debs for criticizing these Acts.

(10) His accomplishments include the federal income tax, the establishment of the Federal Reserve, the Workingmen's Compensation Act, and signing the Seventeenth, Eighteenth and Nineteenth Amendments.

a: **Woodrow Wilson**

25. (Current Events) Answer these questions about the Hong Kong Handover, for the stated number of points.

A: For five, give the appointed Chief Executive of Hong Kong.

a: **Tung Chee-hwa**

B: For ten, in which year was the original "lease" of Hong Kong to the British signed?

a: **1898**

C: Name the official airline of Hong Kong, for fifteen points

a: **Cathay Pacific**

26. (General Knowledge 20) Under the Civil Rights Act of 1964, an employer may discriminate on the basis of gender or religion, but not race; if he or she can prove what lawyers call a BFOQ. For 5 points apiece, give the four words abbreviated BFOQ.

a: **BONA FIDE OCCUPATIONAL QUALIFICATION**

27. (Science 30) The human spine typically has 24 vertebrae, divided into three sections. For five points per part, from top to bottom, give the three sections of the spine and the number of vertebrae in each section.

A: **Cervical-7, Thoracic-12, Lumbar-5**

28. (History 30-20-10) Identify the American historical figure.

(30) This former Solicitor General's last and biggest legal victory came in the 1948 case of Youngstown Sheet & Tube Co. v. Sawyer, in which the Supreme Court ruled that President Truman had exceeded his authority in seizing the nation's steel mills.

(20) This was followed by this southern Democrat's biggest legal defeat, arguing the losing side in Brown v. Board of Education.

(10) He lost the 1924 Presidential race to Calvin Coolidge.

a: **John W. DAVIS**