

Chicago Tossups

1. A type of microphone whose diaphragm is exposed to air on both sides, the type of pressure exerted by a fluid which is due to its motion, in economics the rate at which notes and coins change hands, and in physics, the quantity of which jerk is the second derivative are all, FTP, described by what word, which is often used by non-physicists as a synonym for "speed?"

Ans: _velocity_

2. Kiruna, Malmberget, Mora, Sundsvall, Jonkoping, Karlskrona, Malmo, Goteborg, Uppsala, and Stockholm are all, FTP, in what country?

Ans: _Sweden_

3. Already a professor of history at the age of 19, this Frenchman spent much of his career studying a single piece of black basalt. He is credited with founding the scientific study of ancient Egypt and with discovering that hieroglyphic signs could be divided into three classes, alphabetic, syllabic, and determinative. FTP, name this Egyptologist, who picked up where Thomas Young had left off in the translation of the Rosetta Stone.

Ans: Jean-Francois _Champollion_

4. They flourished in the fifteenth and sixteenth centuries, first in Mainz (MINES), Worms (VORMS), and Strassburg, and then throughout Germany. Artisans by day, they attained their musical rank by first passing through the Singschulen ranks of Schuler, Schulfreund (SHOOL-froynt), Singer, and Dichter (DISH-ter). Their music was strongly religious and moral, and its composition was governed by the highly restrictive code of the Tablature. FTP, name these musicians, one of whom was the title character in an 1868 Wagner opera.

Ans: _Meistersinger_s

5. Brillat-Savarin claimed that because ladies found so much pleasure in a drink made from it, bishops censured their indulgence. Its beans were once used as currency; 4 beans would buy a turkey, and 100 a slave. Cultivated in Africa and Central and South America, it is used in savory dishes such as the Mexican mole (mo-lay), but is generally used sweetened. FTP, name this craving-inducing food, whose familiar forms include mousse, cake, and Hershey bars.

Ans: _cocoa_ or _chocolate_

6. Derived from cholesterol, this hormone, like testosterone, is present in both males and females. This hormone is the branching point in the syntheses of cortisol, corticosterone, and testosterone, and estradiol is ultimately derived from it as well. Secreted in response to high levels of LH and prolactin, it helps to stimulate the formation of the mammary ducts. FTP, what is this steroid hormone, secreted by the corpus luteum and the adrenal cortex?

Ans: _progesterone_

7. His allegorical frieze for the Beethoven exhibition of 1902 was accused of

being pornographic. It was only slightly more controversial than the allegories of Philosophy, Medicine and Jurisprudence he painted on a ceiling at the Vienna University Hall, or the Pallas Athene he exhibited at the second exhibition of the Vienna Secession. FTP, name this painter, best known for a work which depicted a similar couple as that displayed in the Beethoven frieze, 1908's The Kiss.

Answer: Gustav Klimt

8. His first successes came in the service of Sulla. Subsequently he pacified Spain, suppressed piracy in the Mediterranean, conquered Mithradates, and annexed Syria and Palestine before returning to Rome in 62 BC. FTP, name this Roman leader and son-in-law of Julius Caesar, defeated by Caesar at Pharsalus in 48 BC.

Ans: Pompey the Great or Cnaeus Pompeius Magnus

9. After working in Mr. Crummles's acting company, he gets a job in the counting house owned by the Cheerybles. His uncle Ralph encourages Sir Mulberry Hawk to seclude his sister Kate, but commits suicide after discovering that the half-wit Smike is actually his son. FTP, identify this novel, which ends with the title character marrying Madeline Bray, whose depiction of Dotheboys Hall and its brutal master Wackford Squeers led to the reformation of the schools, a work by Charles Dickens.

Answer: Nicholas Nickleby

10. Its curl is proportional to the current density, its divergence is always zero, and its time derivative is minus the curl of \mathbf{E} . It itself is the curl of the vector potential. Its strength due to a current source can be calculated using the Biot-Savart Law, and its effect on a charge using the Lorentz force law. FTP, identify this field, of which the Earth has a relatively weak one which points roughly north.

ANSWER: MAGNETIC field

11. He's collaborating with Jimmy Buffett on the musical Don't Stop the Carnival. Earlier works, such as a 1951 publication, were based upon his World War II experiences aboard the destroyer-minesweeper "Zane". Several other of his publications focus on Jewish characters, as in Inside, Outside, and Marjorie Morningstar. For ten points, who is this author of War and Remembrance?

A: Herman Wouk

12. In 1866 he died of tuberculosis at the age of 40, but he wasn't a starving artist. To the contrary, he occupied a professorship once held by Gauss, and tied the study of prime numbers to his Hypothesis and zeta function. FTP name this founder of modern geometry, for whom a common integral is named.

Ans: Bernhard Riemann

13. Jane Swift, the Democratic candidate for lieutenant governor, last week gave birth to a baby girl by Cesarean section at Brigham and Womens Hospital. This took some of the spotlight away from her running mate, gubernatorial candidate Scott Harshbarger, who in a debate the night before had blamed some financial troubles on a "Democratic

Congress." Harshbarger's opponent is the Republican Acting Governor Paul Cellucci, in FTP, what state formerly governed by William Weld?

Ans: Massachusetts

14. Part of her cult worship probably involved temple prostitution, however, her primary legacy from the Sumerian tradition is the role of fertility figure. The goddess of erotic love, she was often warlike, and myths of hers ended up being identified with Aphrodite, Artemis, and other Greek goddesses. FTP, name this Babylonian goddess of love and war, to whom Solomon dedicated a temple to or a failed Dustin Hoffman-Warren Beatty collaboration.

Ans: Ishtar or Astarte or Ashtoreth (prompt on Inanna or Athtar)

15. A coin is spun on a table, and has lost its stability. The coin leans inward, and the force from the table applies a torque, causing the angular momentum vector to rotate. This phenomenon, also applies to gyroscopes and the earth around its axis and kind of sounds like, FTP, the movement of mourners after a funeral.

Ans: precession

16. You may be surprised to know that this wood is an excellent insulator, used to line refrigerators and store dry ice. You may be less surprised to know that it is used in the construction of airplanes, real and model. Its best known property does not relate to heat, but weight. FTP what is this ultra-light wood, weighing 6 to 8 pounds per square foot?

Ans: Balsa wood

17. Arthur Meyerhoff bought this from its founder in 1944, and presided over its golden age until bowing out in 1951. Although in Kenosha, South Bend, Racine, and Rockford one could find Max Carey, Dave Bancroft, and Jimmie Foxx, audiences came out instead to cheer on the likes of Sophie Kurys and Dorothy Kamenshek. For ten points, what is this organization in existence from 1943 to 1954, founded by Philip K. Wrigley, and featured in the 1992 movie, "A League of Their Own"?

A: All American Girls Professional Baseball League (AAGBPL)

18. This dead Republican was known as "the human iceberg". Although he lacked both charisma and the common touch, he was widely respected for his honesty and diligence. The Dakotas, Montana, Washington, Idaho and Wyoming were admitted to the Union during his time in office. One key piece of legislation during his term was The Sherman Anti-Trust Act of 1890. FTP, name this grandson of a former president.

A: Benjamin Harrison

19. Although the island group consists of 4 main islands, only 3 of them are part of the nation of the same name. In 1974, the population of the largest island, along with those of Mohéli and Anjouan voted for independence; and eventually formed this country located at the northern end of the Mozambique channel. Its territorial waters also were the location of the rediscovery of the once-thought-extinct coelacanth. For ten points, what is this African nation, which does not include the island of Mayotte, but which does have its capital at Moroni?

A: Federal Islamic Republic of the Comoros

20. In it, meaning exists only within systems, especially in those made up of sets of oppositions. It emphasizes the relations between things rather than the things themselves. Patterns in mythology, art, religion, and ritual in cultural systems are products of the invariant structure of the human mind. FTP, name this approach to anthropology that was introduced from structural linguistics by Claude Levi-Strauss.

Ans: structuralism or structural anthropology

21. The title character lives in Rum Alley with her brother Jimmie, a truck-driver, and falls in love with his friend Pete, a bartender who lives with her for a while before abandoning her. The protagonist commits suicide after working as a prostitute and was created in 1893 by Stephen Crane and FTP also names Janine Turner's character on Northern Exposure.

Answer: Maggie: A Girl of the Streets

22. In December 1977, the LA Lakers were playing the Houston Rockets. Midway through the 3rd quarter, a melee broke out which resulted in Rudy Tomjanovich's getting hit by a punch which hit his nose and jaw. For ten points, who hit Tomjanovich, earning a 60-day suspension and a \$10,000 fine from commissioner Larry O'Brien, the longest non-drug related suspension in NBA history until Latrell Sprewell was suspended for a year in 1997?

A: Kermit Washington (of the Lakers)

23. Casting for this 130 million dollar epic live-action movie adaptation will be completed later this year and the first of three films is due for release at Christmas in 2000. Sequels, which will be shot concurrently, will follow four or six months apart. New Zealand film director Peter Jackson will try to capture the magic of the mythic struggle between good and evil in, FTP, what classic fantasy trilogy?

Ans: The Lord of the Rings Trilogy

24. Chapters of it are "Why I am So wise?" "Why I Am So Clever," "Why I Write Such Good Books" and "Why I Am A Destiny." Nietzsche's second to last book, it is a self-portrait and interpretation of his development, his works, and his significance. FTP, name this work, whose title, in Latin, were the words Pilate, according to John, spoke of Jesus, meaning "Behold the Man."

Ans: Ecce Homo