

Tossups by Chicago Scottish

1. Public outrage, especially from newspaper editors and public speakers, was widespread over this set of laws, passed by the Adams administration in 1798. They led to the passage of two sets of resolutions by Virginia and Kentucky, written respectively by James Madison and Thomas Jefferson respectively. The aims of these two resolutions was to affirm the right of

the states to question the validity of laws passed by the federal government. And thirty later, they were used by John C. Calhoun used them to support his theory of nullification of federal law. FTP, name this set of laws, which dealt mainly with the treatment of foreign citizens within

the United States.

Answer: Alien and Sedition Acts

2. He won the Greensboro Open in 1938, and did so again seven more times, becoming the only man to win a single PGA event eight times. His last win in this event was in 1965, making him, at age 52, the oldest regular PGA tour winner in history. Supposedly he never had a golf lesson, but that didn't stop him from winning more championships than anyone else in the history of

golf. FTP, name this Virginian golfer, known for his straw hat.

Ans: Sam Snead

3. It is set in the Black Mesa Bar-B-Q, a gas station and restaurant in the Arizona desert. Jason Maple's daughter Gabby falls in love with Alan Squier, a failed author from New England who is hitch-hiking west, who changes his life insurance so that she becomes his heir before convincing

Duke Mantee to shoot him. FTP, identify this play, which was published in 1935 by Robert Sherwood, whose title symbolizes the "outmoded ideas" of Western civilization.

Answer: The Petrified Forest

4. Consisting of the Ralik to the west and the Ratak to the east, it includes Wotje, Ailuk, Utirik, Rongelap, Arno, Kwajalein, and Eniwetok. These are all atolls in, FTP, what Pacific Republic which also includes Bikini Atoll, and whose capital is at Majuro?

Ans: Marshall Islands

5. Due to the extremely low binding energy of its nucleus, the only known source of this atom is from big bang nucleosynthesis, where one of this atomic species is produced for every hundred thousand hydrogen atoms. Most of what was produced was then consumed by stars during their collapse towards normal hydrogen burning, leaving only trace amounts in interstellar clouds

where it can be easily identified due to isotopic shift in its spectrum. FTP, name this isotope of hydrogen with an extra neutron.

ANS: DEUTERIUM

6. Most of the remains of this early hominid are skull fragments, although indirect evidence suggests that it may have been bipedal and stood approximately 4 feet tall. Fossils found nearby suggest that it may have been a forest dweller and cast doubt on the notions of bipedalism leading to life on the savannah for early hominids. Its teeth are intermediate between those of earlier apes and *Australopithecus afarensis*, placing it out of the same genus upon its announcement by White et al. and Wood in 1994. FTP, name this earliest known hominid species, dated at 4.4 million years old.

ANS: ARDIPITHECUS RAMIDUS

7. He died after drinking strychnine-laced whiskey in a juke joint in 1938, but not before he had used his odd falsetto singing style and incredible skill with a slide guitar to popularize a new, more rhythmic style of blues. Though he only ever set foot in a recording studio twice, his songs, such as "Me and the Devil Blues" and "Hellhound on my Trail" have been re-recorded by musicians from Muddy Waters to Led Zeppelin. FTP, name this Mississippi bluesman, known as the King of the Delta Blues.

Ans: Robert Johnson

8. He was recalled to Africa to defeat Syphax's revolt, but returned to Spain after suppressing it, and during a battle in the Baetis valley killed Gnaeus Scipio. Following his defeat at Baecula, he went to Italy in 207, but was defeated and killed by Gaius Cornelius Nero and Marcus Livius Salinator at Metaurus River, after which his head was cut off and catapulted into his brother's camp. FTP, identify this general, the second son of Hamilcar Barca and the younger brother of Hannibal.

Answer: Hasdrubal Barca

9. The Delians believed that two of them, Hyperoche and Laodice, had visited Delos in the past, and legend had it that two others, Pagasus and Agyieus, founded the oracle at Delphi. It was also believed that they sent Ilithyia to help Leto give birth to Apollo, who was said to spend the winter with them. FTP, identify this people, whose life span was 1,000 years, and who lived in a land of peace beyond the north wind, whose name was later applied by the Greeks to any people of the north.

Answer: Hyperborean_s

10. This Spanish conquistador, born in 1519, ran away to sea at the age of 14 and rose rapidly in the ranks. Phillip II made him captain of the Indies fleet, and in 1565 granted him with 11 ships and a crew of 2,000 men to found a new colony in Florida. Finding a colony of French Protestants that had settled nearby the year before, he ordered the massacre of their camp. He later returned to Spain, and in his absence the French revenged the massacre and hanged his entire Spanish garrison. FTP, name this Spaniard, the founder of the city of St. Augustine in 1565.

Answer: Pedro Menendez de Aviles

11. Unable to afford the cost of an apprenticeship to a printer, this English poet's father sent him to work for an engraver. He showed an aptitude for poetry from a very young age, but it was at the age of 26 that he published Poetical Sketches in 1783. He combined his engraving knowledge with his creative efforts to produce the brilliantly illustrated volume Songs of Innocence, followed years later by Songs of Experience. FTP, name this English poet, the author of such works as "The Lamb" and "The Tiger".

Answer: William Blake

12. Concerned with the "modern survivals of prowess" in everything from sport to business, this man tried to apply evolutionary theories to almost every aspect of economic theory, maintaining that competitive forces make all markets evolve continually. Though he coined the phrase "pecuniary emulation," which became widely known in economic circles, FTP what man is better known for his economic study of economic "The Theory of the Leisure Class," as well as for the phrase "conspicuous consumption?"

Ans: Thorstein _Veblen_

13. He was born after the death of his father, leaving his mother Maria Cristina to serve as regent. The husband of Princess Eugenia of Battenburg, his reign saw the passage of the Padlock Law, which led to the assassination of the Liberal premier Canalejas, and the military coup of Primo de Rivera, who acted on his behalf after he had left for France. FTP, name this monarch, who left his country without abdicating in April 1931, after which a new constitution was adopted by Spain.

Answer: _Alfonso XIII_

14. Before the days of practical numerical simulations, this technique was invaluable for areas like electrostatics and fluid mechanics for finding the solutions to difficult boundary value problems by making use of solutions for simpler geometries. Based upon work by Riemann, common applications of the theory include the bilinear, Schwartz-Christoffel and Joukowski

transformations, dealing with planar, rectilinear and branch-line planar geometries, respectively. FTP, name this staple of complex analysis courses everywhere.

ANS: _CONFORMAL MAPPING_

15. At Levadhia, one belonged to Trophonius. At Oropius, one belonged to Amphiaraus. At Epidaurus, one belonged to Asclepius, and at Branchidae, Patara, Claros, Corope, Ptoon, Tegyra, Thebes, and Delos, there were, FTP, what sites dedicated to Apollo, the most famous of which was at Delphi?

Ans: oracles

16. The word first appeared in American higher education at the University of Kansas in 1889, though it was not until the next year that courses in it were taught at Bryn Mawr and Colby College. In 1892, Albion Small created the first department in it at the fledgling University of Chicago, where Robert Park, Ernest Burgess, William Thomas, and George Mead would teach it. FTP, identify this discipline, which was given its name by Auguste Comte.

Answer: sociology

17. Editor, playwright, critic, and poet, this British writer was born in 1918 and lived the first years of her life in Africa. After World War II she served as secretary general of the Poetry Society, and later took to publishing critical biographies and letter collections of figures such as Mary Shelley and the Bronte sisters. Early novels such as Ballad of Peckham Rye and The Girls of Slender Means were characterized by a mildly humorous fantasy, but later novels like The Driver's Seat dealt with darkened tones. FTP, name twentieth century British author best known for 1961's The Prime of Miss Jean Brodie.

Answer: Muriel Sarah Spark

18. Along with colleague William Ostwald, this chemist founded the prestigious "Journal of Physical Chemistry" in 1887. While at the University of Amsterdam from 1878-1896, he published Studies in Chemical Dynamics describing principles of chemical kinetics and applied the laws of thermodynamics to chemical equilibriums. It was for this work that he received the first Nobel Prize in Chemistry in 1901. FTP, name this chemist who, along with Joseph Le Bel, who stated that the four bonds in carbon radiate toward the corners of a tetrahedron.

Answer: Jacobus Henricus van't Hoff

19. The source of the originally continuous spectra is a background quasar with an emission peak at 1216 angstroms. During the photons' journey to observers here on Earth, the spectrum undergoes redshift due to the cosmological expansion. This results in a very dense set of absorption lines to the redder side of the emission peak in the spectrum that we receive.

FTP, name this phenomena, one of the latest tools utilized by cosmologists to determine the large-scale structure of

the universe, whose name is a combination of the first transition of the first spectral series of hydrogen and large group of trees.

ANS: LYMAN ALPHA FOREST

20. While practicing law in Philadelphia he met Elihu Smith, with whom he founded the Society for the Attainment of Useful Knowledge. His first work, Alcuin: A Dialogue, was a Godwinist defence of the rights of women, while his last works were popular romances, Jane Talbot and Clara Howard. FTP, name this writer, whose better known works were Gothic novels like

Arthur Mervyn and Wieland, and who is considered America's first professional author.

Answer: Charles Brockden Brown

21. After attending the University of Minnesota, he moved to Kansas and became a reporter and later managing editor of the Kansas City Call, a newspaper serving the black community. He continued editing in 1931 when he moved to the NAACP to work for their official publication, known as The Crisis. Involved with that organization through the remainder of the civil rights

movement, he helped to organize the march on Washington in 1963 and served as chairman of the U.S. delegation to the International Conference on Human Rights in 1968. FTP, name this black reformer, executive director of the NAACP from 1955 to 1977.

Answer: Roy Wilkins

22. His recent announcement that he'll be teaming with Mike Allred to do a series of Bluntman and Chronic is sure to cement his status as a hero to fanboys everywhere. Very fitting, then, that the man who sold his comic book collection in order to pay for his first movie should now own his own comic book label, Oni Press, and draw rave reviews for his writing on Marvel's "Daredevil". FTP, name this creator of "Jay and Silent Bob" and the comic book version of his movie "Clerks."

ANS: Kevin SMITH

23. Meg Kasdan, Jon Kasdan, Jamie Gillis, JoBeth Williams, Meg Tilly, Mary Kay Place, William Hurt, and Kevin Kline were all, FTP in what seminal film of the 80s, rumored to include Kevin Costner as a corpse, which also starred Jeff Goldblum, Tom Berenger, and Glenn Close?

Ans: The Big Chill

24. Based upon ideas taken from Marvin Minsky's "Society of the Mind" and developed by the MIT Media Lab, this cross between performance art, music, CPU-enhanced "hyper-instruments" and public participation premiered in 1996 at the Lincoln Center and has since toured all over the world. Participants submit music, sounds and images which are combined into a rough aria by

composer Tod Machover (MACK-over) and then manipulated during performance by participants via the internet and at theaters and concert halls all over the world. FTP, name this geekified intersection of art, libretto, and technology.

ANS: BRAIN OPERA

Bonuses by Chicago Scottish

1. The true key to any good action movie isn't the stunts or the special effects, but rather the one-liners. FTPE, given a catch phrase from an action flick, name it. [Moderator: feel free to inject as much testosterone into the reading of the lines as you see fit]

a) "You called down the thunder. Well, now you got it!"

ANS: TOMBSTONE

b) "You see, in this world there's two kinds of people, my friend: those with loaded guns and those who dig. You dig."

ANS: _THE GOOD, THE BAD, AND THE UGLY_

c) "Define irony: a bunch of idiots dancing around on a plane to a song made famous by a band that died in a plane crash."

ANS: _CON AIR_

2. Name these mythical figures on a 10-5 basis.

10 points: After being struck down by Zeus, he fell into the River Eridanus, where his sisters mourned until they turned into trees.

5 points: This son of Helios was unable to control the horses of the sun when he attempted to ride them.

Answer: _Phaeton_

10 points: He won a chariot race against Oenomaus by bribing Myrtilos to remove the pins from the wheels of his competitor's chariot.

5 points: He owned a golden chariot given to him by Poseidon that allowed him to cross the Aegean in search of a wife.

Answer: _Pelops_

10 points: Beloved by the muses for creating the spring of Hippocrene by a stamp on its magic hoof.

5 points: This creature was caught by Bellerophon while drinking at the spring of Pirene.

Answer: _Pegasus_

3. Answer the following about acid and bases for ten points each:

A. According to this definition of acids and bases, an acid is any substance that donates a proton and a base is any substance that accepts a proton.

Answer: Bronsted-Lowry definition

B. According to this definition an acid is any compound that donates an electron pair and a base is any substance that accepts an electron pair.

Answer: Lewis definition

C. This equation, named for its two discoverers, describes the relationship between the pH of a solution and the percentage of the acid that will become deprotonated in the solution at any given time.

Answer: Henderson-Hasselbach equation

4. For 5 points each and a 5 point bonus if all correct, name the presidents under which these men were vice president:

5 points: Hannibal Hamlin

Answer: Abraham Lincoln

5 points: George M. Dallas

Answer: James K. Polk

5 points: Richard Johnson

Answer: Andrew _Jackson_

5 points: James Sherman

Answer: William Howard _Taft_

5 points: Garret Hobart

Answer: William _McKinley_

5. Name the African country based on its revolutions, 30-20-10.

30 points: After condensing his forces at Lake Kivu, the first borders of this nation were established when King Kigeri IV raided lands to the north and conquered the small kingdom of Gissaka.

20 points: A 1973 coup led by Juvenal Habyarimana brought a new government that pledged to end tribal fighting, but Hutu dominance remained, and it was not until 1981 that general elections were held.

10 points: Extremists came into the jet age when in 1994 they assassinated President

Habyarimana, along with the Burundi's president Cyprien Ntaryamira, by shooting down their aircraft with a missile. This nation's presidential guard, which opposed the sharing of power, was generally held responsible.

Answer: _Rwanda_

6. Everyone's familiar with the Hertzsprung-Russell diagram for stars, but now it's time to see how much you really know about what it demonstrates. Answer the following questions about stellar evolution for the stated number of points.

a) 5 POINTS: This is the name given to the longest portion of a star's life-time, occurring while it fuses hydrogen atoms into helium. On the H-R diagram, these stars lie in a diagonal band running from the upper left corner to lower right.

ANS: _MAIN SEQUENCE_

b) 10 POINTS: After leaving the main sequence, stars move rapidly to the right (cooler surface temperature) and begin moving upwards (higher luminosity) as their cores contract and their photospheres expand. Give the name for this stage in evolution between hydrogen burning and helium burning.

ANS: RED GIANT branch

c) 15 POINTS: At the peak of the red giant branch, a star's core heats up enough to begin burning helium into carbon. However, if the matter in the core is degenerate, the majority of the helium will be consumed in a rapid catastrophic thermonuclear runaway, ending its progression towards

burning heavier elements. To within 1, how much mass (in units of the Sun's mass) must a star have to avoid this?

ANS: 2.5

7. Identify these popes of the sixteenth century on a 10-5 basis.

1. 10 points: The diplomatic failures of this pope led to the sack of Rome in 1527.

5 points: Born Giulio de Medici, his papacy lasted from 1523 to 1534.

Answer: Clement VII

2. 10 points: Born Ugo Buoncampagni, he succeeded Pius V in 1572.

5 points: He is best remembered for his reform of the calendar in 1582.

Answer: Gregory XIII

3. 10 points: After Pius III's 26 days in office, Cardinal Giuliano della Rovere took over under this name.

5 points: Considered the founder of the Papal States, he led the League of Cambrai against Venice and commissioned The School of Athens.

Answer: Julius II

8. Given a city, name the state outside its own state to which it is closest, TPE. For example, if I said Chicago, you¹d say Indiana.

1. Salt Lake City

Ans: Wyoming or WY

2. Chattanooga, TN

Ans: Georgia or GA

3. Pittsburgh, PA

Ans: West Virginia or WV

9. Identify the types of goods, TPE:

1. This is a good which a company produces for another company, which then uses the good to produce another product.

Ans: intermediate good

2. They have a positive wealth effect.

Ans: Normal good

3. They have a negative wealth effect.

Ans: Inferior good

10. Answer these questions about the War of the Second Coalition FTP each.

1. At the beginning of 1799, the French forced the King of Naples to flee to Sicily and set up this Republic in place of the defeated kingdom.

Answer: the Parthenopean Republic

2. In this battle of June, 1799, Suvorov defeated the French army under MacDonald, allowing the King of Naples to return and overthrow the Parthenopean Republic.

Answer: Trebbia

3. On this day of the Revolutionary calendar, Napoleon, assisted by his brother Lucien, dismissed the Directory and set up the consulate.

Answer: the Eighteenth of Brumaire

11. Identify these psychologists, for the stated number of points.

1. 5 points: This developer of individual psychology coined the term "inferiority complex."

Answer: Alfred Adler

2. 10 points: This American psychoanalyst carried out anthropological studies of children and wrote the book "Childhood and Society."

Answer: Erik Erikson

3. 15 points: 1942 also saw the publication of this Swiss therapist's Basic Forms and Knowledge of Human Existence, which built on Heideggerian philosophy to create a new form of existential analysis.

Answer: Ludwig Binswanger

12. FTPE, name the current heads-of-state of each of the following countries:

1. Ireland

Ans: Mary McAleese

2. Chile

Ans: Eduardo Frei

3. Spain

Ans: Jose Maria Aznar

13. 30-20-10, name the book of the old testament from figures in it:

30- Adoniah, Shephatiah, Chileab

20- Amnon, Absalom, Abner

10- David, Bathsheba, Uriah

Ans: 2nd Samuel

14. Now that biology has, for the most part, switched over to cladistics from traditional Linear taxonomy, it's time to update ACF folk as well. Answer the following on cladistics for the stated number of points.

5) The term character refers to any heritable trait, in either phenotype or genotype, which can be examined or labeled. FFP what is the term for a character that is shared by taxa due to descent and which forms the basis of cladistics.

ANS: HOMOLOGOUS character

10) FTP, give the term for type of homologous character which is in a new state (different from the common ancestor to the group) and is shared by all members of the group.

ANS: SYNAPOMORPHY (also accept SHARED DERIVED CHARACTER)

15) This German zoologist is considered the leading proponent of cladistics, setting out the fundamentals of the new approach to systematics in his "Grundzuege einer Theorie der phylogenetischen Systematik," published in 1950 and then reprinted in 1979 as "Phylogenetic Systematics" following his death 3 years earlier. Name him for 15 points.

ANS: Willi HENNIG

15. Identify these recent American novelists from works FTP each.

1. The Women of Brewster Place

Answer: Gloria Naylor

2. The Sot-Weed Factor

Answer: John Barth

3. Blood Meridian

Answer: Cormac McCarthy

16. Given the player, name the European club soccer team for whom each plays, TPE:

1. Ronaldo

Ans: Inter_nazionale de Milan

2. Zinedine Zidane

Ans: Juventus de Turin

3. Denis Bergkamp

Answer: Arsenal

17. Answer the following questions about Asian musical instruments, FTPE.

a) Analogous to the xylophone, this Javanese instrument consists of two horizontal rows of small knobbed gongs, although the precise configuration varies depending upon orchestration.

ANS: BONANG (also accept KENONG or KEROMONG)

b) These Chinese drums played with short wooden sticks form the backbone of the percussion section for Chinese orchestra, with variations including a pair of similar drums (which adds the prefix "pai-") and a larger version (with prefix "ta-"). Name them.

ANS: GU

c) This Indian chordophone varies in size between 4 and 5 feet in length and uses 4 metal strings with no frets and pieces of silk underneath the strings beside the bridge to produce a twanging and buzzing sound when the strings are plucked. It is often used to play the harmonic background to melodies from a sitar or vina. Name it.

ANS: TAMBURA

18. Answer the following questions about radiative processes, FTPE.

a) This dimensionless quantity specifies the degree of attenuation that a beam of light undergoes when it passes through a medium. It is generally approximated by the product of the number density of particles, scattering cross-section and thickness. Name it FTP.

ANS: OPTICAL DEPTH

b. FTP, the Auger effect is an example of this kind of process. In the Auger effect, an electron, rather than a photon is emitted during decay.

ANS: radiationless decay

c) This type of radiation results from the small angle scattering of electrons off of atoms and takes its name from the German word for "braking". Name it FTP.

ANS: BREMSSTRAHLUNG radiation

19. In celebration of the recent news of support from Intel for it, answer the following questions about everyone's favorite freeware operating system for the stated number of points.

a) FFP, name the original author of the Linux operating system.

ANS: Linus _TORVALDS_

b) Although Linux is freely downloadable over the internet, two companies, one primarily in Europe and the other in the States, market commercial versions which come on CD and have supporting documentation. FFPE, name them.

ANS: _RED HAT_ and _CALDERA_

c) As befits an operating system developed by people working on their own time and providing the fruits of their labors for free, most of the programs and documentation for Linux are available for download off the 'net. For 5 points for one and 15 for both, give both the official site for download and the name of the multi-authored instructional documents for hardware and

software issues alike.

ANS: _SUNSITE.UNC.EDU_ (also accept _SUNSITE_) and _HOWTO_s

20. Identify these poems by Wallace Stevens, all of which are from his first book, _Harmonium_, FTP each.

1. The titular object of this poem "took dominion everywhere" and "did not give of bird or bush, / Like nothing else in Tennessee."

Answer: _Anecdote of the Jar_

2. This poem in eight stanzas begins with "complacencies of the peignoir" and ends with an image of flocks of pigeons sinking "downward to darkness, on extended wings."

Answer: _Sunday Morning_

3. The titular animal of this poem is one with a man and a woman, sits in the cedar-limbs, and marked the edge of one of many circles when it flew out of sight.

Answer: Thirteen Ways of Looking at a Blackbird

21. Name the plays by Shakespeare based on minor characters for 10 points or 5 points more well known ones.

10 points: Earl of Gloucester, Duke of Cornwall, Duke of Albany, Duke of Burgundy

5 points: Edgar, Edmund, Oswald

Answer: King Lear

10 points: Grumio, Christopher Sly, Gremio, Vincentio

5 points: Hortensio, Lucentio, Baptista

Answer: The Taming of the Shrew

10 points: Corin, LeBeau, Duke Fredrerick, Duke Senior

5 points: Oliver, Orlando, Jaques, Touchstone

Answer: As You Like It

22. Answer the following questions on traditional Chinese architecture FTPE.

a) This word refers to any storeyed building with a horizontal main ridge, although in the case of more impressive structures it is sometimes translated as a "tower" and often contain large bells or drums. Famous examples include Yueyang Tower in Hunan and the Tower of the Yellow Crane in Wuchang.

ANS: LOU (also accept ZHONLOU or GULOU)

b) Similar to the lou, this type of tower also had multiple storeys, but doors and windows only on one side, the other sides being solid walls. These structures were typically used to house important documents, like the Tianyige in Ningbo, or to house immense statues in great monasteries, such as 23 meter statue of Guanyin (Goddess of Mercy) in the Guanying of the Dulesi Temple in Jixian County.

ANS: _GE_