

University of South Carolina Tossups
1996 Tar Heel Cup

1. Formulated by a Russian chemist, it showed the laws of thermodynamics held for chemical reactions, and it is the foundation of thermochemistry. FTP, name this principle stating the amount of heat developed or absorbed going from substance A to substance B is always fixed, regardless of the type of change.
Hess's Law
2. After this poem was fiercely attacked by critics, a "Preface" was added, stating that it was "a feverish attempt, rather than a deed accomplished." FTP, name this 1818 John Keats work based partly on the legend of a mortal man loved by the moon goddess of Greek Myth.
"Endymion"
3. Born in Constantinople, Ottoman Empire, his Greek family came to America in 1913. He was a renowned Broadway director, and moved into films in 1944. FTP, name this director of *Splendour in the Grass*, *A Tree Grows in Brooklyn*, *East of Eden*, and the Academy Award-winning *Gentleman's Agreement*.
Elia _Kazan_
4. Pressured by the Teutonic knights, this state coalesced in the early 1300's. Governing territory from the Baltic to the Black Sea, it was first influenced by Russians, then Poland, with whom it won the 1410 Battle of Tannenberg. FTP, name this country which joined Poland in the 1569 Union of Lublin, which has its remnants in a small former Soviet Republic on the Baltic.
Grand Duchy of _Lithuania_
5. Born about 1406 in Florence, this Carmelite monk's life included abduction by Moors and 18 months as a slave. After painting his master's portrait to gain his freedom, he served the Medicis. FTP, name this creator of the 1437 "Madonna and Child" altarpiece, *The Annunciation*, *The Coronation of the Virgin*, and *Madonna and Child with Two Angels*.
Fra Filippo _Lippi_
6. It begins in Witwatersrand as the Krokodil River and takes its name after joining the Marico. Like most African systems, it is largely unnavigable, and Vasco da Gama was its first European visitor. FTP, name this river which forms the boundary between South Africa and Zimbabwe, described by Rudyard Kipling as "the great gray-green."
Limpopo River
7. Born in 1934, his first major play was *A Dance of the Forests*, written for independence celebrations in his home country. He fuses Yoruba folklore with Western elements in such works as *The Lion and the Jewel*, *The Trials of Brother Jero*, and *The Strong Breed*. FTP, name this 1986 Nobel Prize winner from Nigeria.
Wole _Soyinka_
8. In 1873 Peru signed a secret treaty with Bolivia, but there was little need to invoke it. On April 5, 1879, Chile declared war on both countries and inflicted great damage on US-backed Peru. FTP, name this South American conflict over tax revenues which resulted in the loss of Bolivia's coastline.
War of the Pacific
9. Shocked by poor agricultural practices, Oliver Hudson Kelley created it in 1867 to promote education. Spreading to almost every state, it became a vehicle for collective action against railroads and grain elevators, which were challenged in *Munn v. Illinois* and similar court cases. FTP, name this still-extant political group promoting the rights of farmers.
Granger movement (or "Grange")

10. Before its discovery, hydrochloric acid was believed to be the sole agent of human digestion. In 1836, Theodor Schwann mixed this stomach extract with acid to digest meat, thus discovering the first animal enzyme. FTP, name this substance named from the Greek for "to digest".
 Pepsin
11. The name is the same. The Austrian obtained the Privilegium Minus from the Holy Roman Emperor. The German was canonized in 1146. The Frenchman's repression of Protestants led to the Wars of Religion. FTP, give the name shared with the English killer of Thomas Becket.
 Henry II
12. It was actually an attempt to tie the US into a system of protective alliances, but only a watered-down version was signed. 62 nations were listed, including all major powers, but it was filled with loopholes, including non-prohibition of self-defense or preexisting alliances. FTP, name this 1928 attempt to outlaw war as an instrument of national policy.
 Kellogg-Briand Pact or Pact of Paris
13. He trained as a physicist and mathematician, but this Italian is famous for the subject of his 1906 Manual of Political Economy. He laid the foundations of welfare economics with his namesake optimum, which states resources are optimally allocated if no one's situation improves without another's harm. FTP, name this creator of indifference curves.
 Vilfredo Pareto
14. Denoted by the capital letter H, its product with distance is the cosmological velocity-distance law. Its reciprocal lies between 10 and 20 billion years, the age of the universe. FTP, identify this relation between the velocity of galaxies and their distances, named for the man who determined its value in 1929.
 Hubble's Constant
15. The first priestess of Hera, she was loved by Zeus, who changed her to a white heifer to protect her. Hera sent a gadfly to torment her, leading her to wander the world, and swim the Bosphorus, or Ox-Ford, to escape. FTP, give this mythological namesake of Jupiter's innermost moon.
 Io
16. Born in Ireland, he studied law at Princeton and was attorney general of New Jersey during the Revolution. At the Constitutional Convention, he was the leading opponent of proportional representation, and his plan was an alternative to the Virginia Plan. FTP, name this man who compromised on a bicameral legislature, a modification of his New Jersey plan.
 William Paterson
17. This system was gradually refined to three steps: epoche, objective description of mental acts; eidetic reduction, reflecting on the act; and taking into account ways objects are constituted by the mind. A central problem was whether objects existed independently of mental acts. FTP, name this 20th century school of philosophy created by Edmund Husserl.
 Phenomenology
18. Handel was an early proponent of this form and Bach introduced solo instruments. Mozart and Beethoven wrote many, usually beginning with a sonata, having an ABA form for the second movement, and ending with a rondo. FTP, name this form known for its virtuoso character, exemplified by Tchaikovsky's versions for violin and piano.
 Concerto
19. It has the dimensions of energy and its value is determined by temperature, pressure and composition of a system, but not its history. Symbolized by the capital letter H, it is the product of volume and pressure. FTP, give this thermodynamic term coined by Rudolph Clausius for the sum of internal energy change.
 Enthalpy

20. Born in the British West Indies, he wrote Constab Ballads in Jamaican dialect before attending Tuskegee Institute. Racism turned him from youthful conservatism, and his Spring in New Hampshire and Harlem Shadows marked him as the most radical Harlem Renaissance voice. FTP, name this author of 1928's Home to Harlem as well as the poem "If We Must Die."

Claude _McKay_

21. Only one sentence of his survives, so most knowledge of this student of Thales is based on later reports. He believed the world derived from a primal substance called apeiron which preceded the separation into contrasting qualities like hot and cold. FTP, name this Greek who was the first to develop a cosmology.

Anaximander

22. The idea of a British chemist, it was apparently disproved many times, since atomic weights were not found to be multiples of hydrogen's weight. Twentieth-century discoveries proved it largely correct. FTP, name this 1815 suggestion that all atoms are built from different numbers of hydrogen atoms.

Prout's Hypothesis

23. It was useful in mining, since its cool flame was unlikely to ignite coal dust and methane. Created when kieselguhr, or diatomaceous earth, soaked spilled nitroglycerine, it was named from Greek for "power".

FTP, name 1866 creation of Alfred Nobel.

Dynamite

24. The extreme southern region of this desert country extends into the Sahel and includes the Senegal River. The population is mainly Moorish, but there are also many blacks, including an estimated 100, 000 slaves. FTP, name this West African country with its capital at Nouakchott.

Mauritania

25. He was a violinist and kapelmeister in the Danish court, and taught at the Royal Conservatory from 1915 until his death in 1931. He wrote many songs based on folk traditions, and the opera Saul og David, but is more famous for symphonies including The Four Temperaments. FTP, name this creator of The Inextinguishable symphony.

Carl _Nielsen_

26. Little is known of his life in the 5th century, but his poems suggest that he was a priest of Shiva. Many works are attributed to him, and his drama "The Recognition of Sakuntala" is generally judged the greatest Indian literary effort of all time. FTP, name this "servant of Kali", whose works like "Vikramorvasi" should only be pronounced in translation.

Kalidasa

27. British physician James Braid investigated this phenomenon after watching a mesmerism exhibition in 1841, and named it from the Greek for "sleep" FTP, name this use of repetitive stimuli to induce a trancelike state in which the mind is open to suggestion.

Hypnotism

University of South Carolina Bonuses

1. Answer these questions from physics for the stated number of points.

~~3~~ points-It states that all particles are even or odd, and a closed system's even or odd total stays constant.

Law of Conservation of Parity

~~10~~ points-These subatomic particles seemed to violate Conservation of Parity, since they sometimes decayed to even pion groups, and sometimes odd groups.

Kaons

~~15~~ These two Chinese physicists shared the 1957 Physics Nobel for showing that since kaons decay through weak interaction without conservation of parity, they could decay to even or odd indiscriminately. Name either one for 15 points.

Yang Chen Ning and Lee Tsung-dao

2. Answer these question about the history of firearms FTP each.

~~1~~-Patented in 1835 by Samuel Colt, it was the first type of gun to reload automatically.

Revolver or Six-Shooter

~~2~~-Invented by Johann von Dreyse, it was named for its firing pin and allowed Prussia to militarily dominate Europe.

Needle Gun

~~6~~-This American's hand-cranked machine gun saw use in the War Between the States and his name became slang for his weapon.

Richard Jordan Gatling

3. If the John Birch Society has your address, your view of history may be different than most. FTP each, name these figures from descriptions. By the way, this is all true.

~~1~~-His first foreign policy initiative was recognizing the government of a communist dictator. He gave that man top priority on all war supplies, even over Americans fighting in the Pacific.

Franklin Delano Roosevelt

~~1~~-On Labor Day, 1967, he called for revolution "all over the globe." His million-dollar bank account came through Bayard Rustin and other Communist Party supporters.

Martin Luther King

~~3~~-In 1960, an Eisenhower aide testified, "the United States press played a major role in bringing ____ to power." Khrushchev banged his shoe at the UN to applaud this man's anti-American remarks.

Fidel Castro

4. Name the following American women poets from their works on a 10-5 basis.

10-To a Steam Roller, The Fish, Critics and Connoisseurs

5-Poetry

Marianne Moore

10 In the Mecca, the collection The Bean Eaters

5-Annie Allen

Gwendolyn Brooks

10-The Harp Weaver, the collection Second April

5-Renascence

Edna St. Vincent Millay

5. Answer the following questions concerning the Hundred Years' War Battle of Poitiers for the stated number of points.

5 points-Poitiers was fought in this year, within 10 years.

1356 (accept 1346 to 1366)

5 points-This son of Edward III commanded a English force of 7000 men.

Edward the Black Prince

10 points-This French king was captured after his army was destroyed.

John II
10 points-To win his freedom, John was forced to sign this treaty in 1360.
Treaty of Bretigny (or Calais)

6. Answer the following questions about 19th-century Japanese history for the stated number of points.
5 points-This period lasting from 1867 to 1912 saw the restoration of its namesake emperor and the Westernization of Japan.

Meiji Restoration
10 points-This 1854 treaty, also called the Perry Convention, was Japan's first with a Western power.
Treaty of Kanagawa
15 points-This man, the Japanese George Washington, was premier for most years between 1885 and 1900, drafted the Meiji constitution and created a bicameral Diet.

Ito Hirobumi

7. FTP each, name the following poet laureates of England.

1. This Romantic author of Joan of Arc and Madoc gained the office through Sir Walter Scott's influence, though his enemies pointed out his youthful support for the French Revolution.

Robert Southey

2. Considered the first poet laureate, this author of Bartholomew Fair was granted a pension by James I in 1616 even though he had been a Catholic.

Ben Jonson

2. James II's poet laureate, he wrote Absalom and Achitophel on his king's behalf. After the Revolution, he was dismissed for refusing to take the oath of allegiance.

John Dryden

8. Identify the capitals of the following island nations for 5 points each.

~~X~~ Tuvalu-
Fongafale

~~X~~ Maldives-
Male

~~X~~ Western Samoa-
Apia

~~X~~ Mauritius-
Port Louis

~~X~~ Barbados-
Bridgetown

~~X~~ Comoros-
Moroni

9. Recently, a rebellious region of Russia issued its first two postage stamps, which commemorate two cultural icons, but not the ones you'd think. Name the following for the stated number of points.

10 points-Name the stamp subject who starred in "A Day at the Races", and hosted "You Bet Your Life".

~~X~~ Groucho Marx

10 points-Name the stamp subject who starred in "Help" and was killed by Mark David Chapman.

~~X~~ John Lennon

10 points-Name the issuer of the stamps, a republic on the Black Sea whose capital is Sukhumi.

~~X~~ Abkhazia

10. Answer the following questions about Robert Hooke on a 5-10-15 basis.

5 points-In 1665, Hooke first noted these in a sliver of cork he examined under a microscope and named them from Latin for "small chamber".

Cells

10-Hooke almost prevented the publication of this physics and mathematics treatise by his greatest rival, but Edmund Halley paid for its printing with his personal fortune.

Principia Mathematica

~~C15~~ In 1664, Hooke first observed and named this phenomenon while viewing Jupiter through his telescope.
Great Red Spot

11. Identify the following Roman emperors from descriptions FTP each.

1-Founder of the Flavian dynasty, he ruled from AD 69 to 79. During his reign, the Jewish revolt was quelled, the Forum was built and Colosseum begun.

Vespasian

2-Eastern Emperor from AD 379, and sole Emperor from 392 to 395, he suppressed paganism and Arianism, made mandatory the Nicene Creed and convened the 2nd council at Constantinople to confirm it, as well as banning the Olympic games.

Theodosius the Great

3-He allegedly killed his uncle Titus for the throne in AD 81, and was himself overthrown in a palace coup in 96. Famous for terrorizing the Senate, he insisted on being addressed as "Master and God".

Domitian

12. FTP each, identify the following Indian tribes from American history.

~~1~~ Hunter-gatherers without centralized tribal structures, they fought Americans intermittently from 1861, when Cochise went on the warpath, until 1886, when Geronimo surrendered.

Apache

~~2~~ Their military power was broken in the Revolution. After ceding their lands in the Carolinas, they became highly assimilated and aided Andrew Jackson against the Creeks. In appreciation, he sent them on the Trail of Tears in 1838.

Cherokee

~~3~~ Discovery of gold on their land in 1860 caused US commissioners to reduce the size of their reservation by three-quarters through fraud. Resentment caused war in 1877 in which Chief Joseph and his band fled to Montana before surrendering to Nelson Miles.

Nez Perce

13. Name this British author on a 30-20-10 basis.

30-With 4 illegitimate children, little education and a failed farm, he considered emigrating, until his 1786 book brought him instant fame.

20-Almost all his best poems, including The Twa Dogs, The Holy Fair, and To a Mouse are in that first book, most written in Scottish dialect

10-His songwriting has carried his fame around the world, as he is the author of "Green Grow the Rushes, O" and "Auld Lang Syne".

Robert Burns

14. Identify the following battles from the Napoleonic Wars FTP each.

~~1~~ Russians under M I Kutuzov halted their retreat and fortified this town. Napoleon assaulted it on September 7, 1812, taking it after a massive bloodbath.

Borodino

~~2~~ Wellington's combined English, Spanish and Portuguese army routed Joseph Bonaparte here on June 21, 1813, causing him to retreat over the Pyrenees without his artillery.

Vitoria

~~3~~ Baron Mack's small Austrian force was to rendezvous with the Russians in Bavaria to block Napoleon's route to Italy. Instead, Mack was trapped in this city, and on October 20, 1805, surrendered virtually all his troops, with negligible losses for the French.

Ulm

15. For 5 points each, name the creator of the following Expressionist works.

~~1~~ The Cabinet of Dr Caligari

Robert Wiene

~~2~~ The Night; Great Scene of Death

Max Beckman

- ~~15~~-50 plates called War; Self-Portrait as Mars
Otto Dix
- ~~14~~-The Dance Round the Golden Calf; Pentecost
Emil Nolde
- ~~13~~-The Mandril; The Yellow Cow
Franz Marc
- ~~12~~-Funeral Procession of Oskar Panizza; The Little Murderer
George Grosz

~~16~~ 16. Identify the following Biblical figures whose names begin with "c" on a 5-10-15 basis.

5 points-The first-born son of Adam, he killed his brother and was banished by the Lord.

Cain 5

10 points-Sent to spy on Canaan, only he and Joshua advised taking it, and he received Hebron for his faith.

Caleb 10

15 points-A queen of Nubia, her eunuch treasurer heard a disciple of Jesus preaching and converted to Christianity.

Candace 15

~~17~~ 17. Answer the following questions about the Middle Eastern nation of Qatar for 5 points apiece for the first two and 10pts apiece for the second two.

~~1~~ 1-Qatar shares a land border with 2 countries. Name both of them for 5 points.

Saudi Arabia and United Arab Emirates

~~2~~ 2-70% of Qatar's population lives in this city, its capital. Name it for 5 points.

Doha

~~3~~ 3-Qatar had 2 colonial masters from 1872 to 1971. Name both of them for 10 points.

Ottoman Empire (accept Turkey) and Great Britain

~~4~~ 4-Almost all Qataris are Sunni Muslims of this ultraorthodox Arabian sect. Name it for 10 points.

Wahabi

~~18~~ 18. Identify the following vitamins FTP each.

~~1~~ 1-First synthesized in 1938, it is necessary for skin maintenance in most animals, but its deficiency causes no disease in humans.

B 6

~~2~~ 2-Formed from radiation of sterols in the skin, its deficiency causes rickets.

D

~~3~~ 3-Also called cyanocobalamin, plants have none, and its deficiency causes spinal cord deterioration and malformed tongue.

B 12

~~19~~ 19. Given a hormone, name the endocrine gland that secretes it for 5 points each.

~~1~~ 1-Oxytocin

Hypothalamus

~~2~~ 2-Prolactin

Pituitary

~~3~~ 3-Norepinephrine

Adrenal

~~4~~ 4-Relaxin

Ovaries or Placenta

~~5~~ 5-Adrenocorticotrophic Hormone (ACTH)

Pituitary

~~6~~ 6-Aldosterone

Adrenal

20. Identify the work of John Milton from the opening lines for 15 points each.

a-This is the month, and this the happy morn,
Where in the Son of Heaven's eternal king,
Of wedded maid and Virgin Mother born.

Answer-On the Morning of Christ's Nativity

2-I who erewhile the happy garden sung,
By one man's disobedience lost, now sing
Recovered Paradise to all mankind
By one man's firm obedience fully tried

Answer-Paradise Regained

21. While many were fighting, these physicists were making important contributions to human knowledge. FTP each, name these physicists whose breakthroughs came during World War I.

1-This British father and son team won the 1915 Nobel for determining wavelengths of X-rays by diffraction through crystals.

William Henry and William Lawrence Bragg

2-In 1914, he identified the hydrogen nucleus as the smallest particle with a positive charge, and named it proton from Greek for "first".

Ernest Rutherford

3-The first man to work out solutions for Einstein's general relativity equations, this German calculated the distance from a compressed star at which light cannot escape its pull in 1916.

Karl Schwarzschild

22. Name these Asian deserts for 5 points each and a 5 point bonus for all correct.

1-Turkmenistan sits in it and the Amu Darya runs through it.

Karakum

2-Called the Empty Quarter, it occupies most of the Arabian peninsula.

Rub al Khali

3-In southern Kazakhstan and northern Uzbekistan, its name means "red sands" in Turkic.

Kyzylkum

4-It is a desert of western China between the Tian Shan and Kunlun mountains.

Taklimakan

5-It occupies Mongolia and northern China and is a prime site of dinosaur fossils.

Gobi

23. Name the composers from works on a 10-5 basis.

10-St Ludmilla, Rusalka

5-Slavonic Dances

Antonin Dvorak

10-Sadko, Christams Eve

5-Scheherazade

Nikolai Rimsky-Korsakov

10-School for Scandal, Dance of Medea

5-Adagio for Strings

Samuel Barber

24. FTP each, name these people from the Trojan War.

1-The youngest son of Priam, he was captured and put to death by Achilles.

Troilus

2-Fate's scale weighed out death in battle with Achilles for him, and his mother Eos came just in time to retrieve his body.

Memnon

3-Helenos prophesied that the arrows of Heracles were necessary to end the war. Unfortunately, they belonged to this man whom the Greeks had abandoned on account of his foot wound.

Philoctetes

25. Name the following philosophers from writings for 5 points each and a 5 point bonus for all correct.

1-Three Dialogues Between Hylas and Philonus

George Berkeley

2-The Idea of God as Affected by Modern Knowledge

John Fiske

3-An Enquiry Concerning Political Justice

William Godwin

4-Essay Concerning Human Understanding

John Locke

5-The Analysis of Mind

Bertrand Russell

26. Identify these Russian art movements FTP each.

1-Emphasizing movement and transparent materials, its members included Naum Gabo and Vlad Tatlin.

Constructivism

2-Emphasizing flat shapes on pure-colored canvases, its main advocate was Kasimir Malevich.

Suprematism

3-Emphasizing violent floating lines, members included Mikhail Larionov and Natalya Goncharova.

Rayonism

27. Answer the following questions about Bronislaw Malinowski on a 5-10-15 basis.

5 points-Malinowski traced his love for anthropology to the encyclopedic treatment in a Polish translation of this book by James Frazer.

The Golden Bough

10 Malinowski is generally regarded as the founder of this branch of anthropology, which deals with habitual behavior patterns of people.

Social or Cultural Anthropology

15 points-Malinowski made his reputation in this island group near New Guinea from 1915 to 1918, by recording island life and personal observations in minute detail.

Trobriand Islands

28. Answer the following questions about Johannes Brahms on a 5-10-15 basis.

1-Brahms spent 12 years writing his most famous choral work based on Biblical texts and first performed on Good Friday, 1868.

A German Requiem

2-Brahms's big break came when this man, his friend and editor of Neue Zeitschrift für Musik, praised him in an 1853 article.

Robert Schumann

3-One of the last major works of Brahms, he completed this choral and piano collection on his 63rd birthday. A deeply pessimistic work, it welcomes death as the healer of pain and weariness.

Four Serious Songs

29. 30-20-10, identify the dead Roman emperor.

30: He was probably born in Spain in 76 A.D.

20: As emperor, he eliminated the publicani or tax farmers and began to codify Roman law.

10: He had a large fortification built which stretched from the Tyne river to the Solway firth in Britain

Hadrian