

2001 Chicago Open

Tossups by ER (Eric Hillemann and R. Robert Hentzel)

1. A densely-populated island of volcanic origin, it is some 13,800 square miles in size. Its longest river is the Chikugo, and it has a mountainous interior whose highest point is Kuju-san. Bordered by the Osumi, Bongo, and Shimonoseki straits, its principal cities include Fukuoka and Nagasaki. FTP, name this southernmost of the four major islands of Japan.

Answer: Kyushu

2. This work concerns the varied responses of five frustrated sisters to their domineering mother's having kept them for eight years in forced seclusion and mourning for their dead father. Subtitled "Drama of Women in the Villages of Spain," it was completed in 1936, the same year as the murder of its playwright. FTP, name this García Lorca play which completed the trilogy begun with *Blood Wedding* and *Yerma*.

Answer: The House of Bernarda Alba or La Casa de Bernarda Alba

3. Its partial derivative with respect to a generalized momentum yields the time rate of change of a coordinate. Conversely, its partial derivative with respect to a generalized coordinate yields the time rate of change of a momentum. For a falling body it is equal to one-half $m v$ squared plus $m g h$ or the sum of the system's kinetic and potential energies. FTP, name this dynamic quantity introduced in 1835 by an Irish mathematician.

Answer: Hamiltonian (function)

4. He earned a 1953 Ph.D. in history from Northwestern with a dissertation on the Colorado coal strike of 1913-14, and then taught briefly before being elected to Congress in 1956. Following a move to the Senate six years later he was at first most associated with efforts to combat hunger and malnutrition, but then became a focus of opposition to the war in Vietnam. FTP, name this man propelled by the antiwar movement to the top of his party's presidential ticket, but who was then crushed by Richard Nixon in the 1972 election.

Answer: George S(tanley) McGovern

5. It's also prominent on Malastare, the home world of Mawhonic, a competitor who crashed and was tragically killed during the Boonta Eve event before he had even completed the first lap. The greatest competitor in this sport is Sebulba, who has dominated the circuit for years. This sport is dominated by aliens since humans don't have the necessary reaction to maneuver their vehicles at 550 miles per hour around the course. FTP, name this "very fast, very dangerous" competition at which Anakin Skywalker excels in *The Phantom Menace*.

Answer: pod-racing

6. In the title character's rooms, the protagonist observes him at late night employing his enormous arm muscles to beat out gold for various purposes. After retiring from a successful career in the vermicelli business he takes choice rooms on the first floor of the Maison Vauquer in Paris. Over the next few years he moves to increasingly shabbier rooms in the boarding house, as he is ruined by his over-indulgent devotion to a pair of ungrateful daughters, the Baroness Delphine de Nucingen and Countess Anastasie de Restand. FTP, name this title character in a work also featuring the character Eugène de Rastignac, created by Honoré de Balzac.

Answer: (Le Père or Father or Old) Goriot

7. It is often divided into two functional categories, single-unit and multi-unit, based on the number of gap junctions present to coordinate activity. Found primarily around blood vessels, bronchioles, and the digestive tract, it is characterized by the absence of sarcomeres and a 16:1 ratio of thin-to-thick filaments. FTP, name this type of non-striated muscle, often contrasted with its skeletal and cardiac cousins.

Answer: smooth muscle or involuntary muscle

8. The modern version was officially proclaimed in 1816 by the Bourbon monarch who thereafter styled himself Ferdinand I of this kingdom. It continued under the reactionary Francis I, Ferdinand II, and Francis II, until the 1861 fall of the fortress of Gaeta to the forces of Victor Emmanuel II of Sardinia, after which it became the southernmost part of the kingdom of Italy. FTP, name this 19th-century kingdom whose name reflected its union of the kingdom of Naples with that of Sicily.

Answer: The Kingdom of the Two Sicilies

9. Neurath, Frank, and Feigl were minor members of its main branch, which spawned a cognate group, whose members included Carl Hempel and Hans Reichenbach. Its first public manifesto was *Scientific Conception of the*

World, which held that statements of ethics, religion, and aesthetics were meaningless because they weren't grounded in observation, and formulated a "verifiability principle." FTP, name this group associated Morritz Schlick and Rudolf Carnap, with logical positivism, and with the capital of Austria.

Answer: the Vienna Circle or Der Wiener Kreis

10. Antoine Jean Gros painted him on the bridge of Arcole and visiting the plague-stricken of Jaffa; Meissonier painted him returning from Soissons; Sir William Quiller Orchardson painted him aboard the *Bellerophon*; and Jean-Dominique Ingres painted him on his throne. FTP, name this common subject, also shown "in his study" and "at his coronation" in works by Jacques-Louis David.

Answer: Napoleon (I) Bonaparte

11. Mrs. Ogmore Pritchard, twice widowed, still lays down the household law of chores to her dead husbands. Gwendolyn B. and Sinbad Sailors are involved in a romance as are Myfanwy Price and Mr. Mog Edwards. Other characters include Willy Nilly, the postman, and the blind sea captain, Captain Cat. The fictional setting is probably based on the town of Laugharne [loch-HARN] but is actually the words "bugger all" spelled backwards as Llaregubb. FTP, name this play depicting 24 hours in the life of one Welsh village, a work by Dylan Thomas.

Answer: Under Milk Wood

12. Glucose and sucrose are solids at room temperature, even though many other compounds of like molar mass are liquid. Similarly, water is a liquid at room temperature when its low molar mass suggests that it should be a gas. In all three cases, this is because of the presence of an attraction between relatively positive and negative parts of the molecules in the presence of electronegative atoms. FTP, name this type of intermolecular bond involving the lightest element.

Answer: hydrogen bond(ing)

13. This conflict was quickly over after the path to Vipuri was opened up. The losers, unable to secure help from Britain and France, agreed to the cession of western Karelia and the construction of a foreign naval base on the Hanko Peninsula. It didn't prove much of a war, once the Mannerheim Line was breached. FTP, name this conflict that began in late 1939, historically known as the Russo-Finnish War but commonly given this seasonal name.

Answer: Winter War (accept early Russo-Finnish War)

14. The early years to 1940 of this man are the subject of a 2001 biography by Gary Giddens subtitled *A Pocketful of Dreams*. In those years he left Gonzaga University to sign a contract with Paul Whiteman, joined with Harry Baris and Al Rinker to form the Rhythm Boys, and then began his phenomenally successful solo career. Not so successful was his first marriage, to alcoholic starlet Dixie Lee, eventually the victim of a pathetic death. FTP, what singer, who intensely disliked being described as a "crooner," also starred in such films as *Holiday Inn* and *Going My Way*?

Answer: Harry Lillis "Bing" Crosby

15. His treatise against Felix of Urgel helped defeat the adoptionist heresy, and he ended his life as abbot of St. Martin of Tours, but his major influence came as an educator. He was responsible for the division of studies into the seven liberal arts, the trivium and quadrivium, and his dialogue textbook on rhetoric, the *Compendia*, was an important text of the Carolingian renaissance. FTP, name this English luminary at the court of Charlemagne, who had formerly been principal of the cathedral school of York.

Answer: Alcuin (or Albinus) of York

16. He was best man at the wedding of Richard Fariña to Mimi Baez, and is the author of an introduction to Fariña's novel *Been Down So Long it Looks Like Up to Me*. In 1974 one of his own novels was selected for the prestigious National Book Award, but he refused the honor, sending to the awards ceremony as a surrogate a comedian whose shtick was mastery of doubletalk. FTP, name this man who has had no picture of himself published more recently than his 1950s high school yearbook, the reclusive author of *Gravity's Rainbow*.

Answer: Thomas (Ruggles) Pynchon, Jr.

17. Any isomorphism from the positive real numbers under multiplication to the entire real line under addition is essentially equivalent to one of these functions. They are also the antiderivatives of k over x dx evaluated between 1 and the point in question for any constant k . FTP, name this type of function, the inverse of an exponential, whose common variety has a base of 10 and whose natural variety has a base of e .

Answer: logarithm(s)

18. Wallace Stegner in 1954 and Donald Worster in 2001 have each published biographies of this man with the respective titles *Beyond the Hundredth Meridian* and *A River Running West*. A serious student of Indian languages, he was the first director of the federal Bureau of Ethnology, but is better remembered as a co-founder and second director of the U.S. Geological Survey. He caught the popular imagination, however, for his leadership of two famous expeditions on the Colorado River. FTP, name this one-armed geologist who was named for the founder of Methodism.

Answer: John Wesley Powell

19. The total value of this kind of note was originally capped at 14 million pounds by the 1844 Bank Charter Act of Great Britain, the same law that introduced this term to economics. All notes issued in excess of this limit had to be backed by increased holdings of gold and silver. FTP, give this term for financial instruments that may be exchanged on demand for intrinsic money, a concept often contrasted with "fiat currency."

Answer: fiduciary (money, currency, notes, etc.)

20. The first version of this building opened in 1874 as P.T. Barnum's Monster Classical and Geological Hippodrome, and took its more familiar name in 1879. Its second incarnation, lasting from 1890 to 1925, was the grandest: a yellow brick and Pompeian white terra cotta structure containing a restaurant, theater, and concert hall--as well as a famous rooftop garden in which its designer, Stanford White, was shot to death in 1906. FTP, what name continues today in a fourth incarnation built in 1968, a sports and entertainment arena located above New York's Penn Station?

Answer: Madison Square Garden

21. She lost in the singles championship finals of the U.S. Open four straight years, and never won it--the only Grand Slam event she never captured. Her last Grand Slam singles title came at Wimbledon in 1980, nine years after her first. In between she was most successful at the Australian Open, winning four times in front of home-country crowds. FTP, name this 1970s star, an Australian of aboriginal descent whose married name was "Cawley."

Answer: Evonne Goolagong Cawley (accept Cawley until end of question)

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Bonuses by ER (Eric Hillemann and R. Robert Hentzel)

1. Indian warfare. FTP each--

A. When Alexander the Great penetrated into northern India in 326 BC he defeated a force at the Hydaspes river led by what ruler?

Answer: Porus

B. In 1526 and again in 1556, this town on the route to Afghanistan was the site of important Mogul victories for Babur and then Akbar.

Answer: Panipat

C. In 1843 this British general was responsible for one of history's most famous puns. Having captured the Indian province of Sind, he is said to have announced his victory with the message "peccavi," meaning in Latin, "I have sinned."

Answer: Sir Charles James Napier

2. Given a quote, identify the Dickens character who is the speaker:

A. For 5 points, "I wear the chain I forged in life."

Answer: Jacob Marley or Marley's Ghost (from *A Christmas Carol*)

B. For 5 points, "It is a far, far better rest that I go to, than I have ever known."

Answer: Sidney Carton (from *A Tale of Two Cities*)

C. For 10 points, "What a fine thing capital punishment is! Dead men never repent; dead men never bring awkward stories to light. Ah, it's a fine thing for the trade!"

Answer: Fagin (from *Oliver Twist*)

D. For 10 points, "Annual income twenty pounds, annual expenditure nineteen nineteen six, result happiness. Annual income twenty pounds, annual expenditure twenty pounds ought and six, result misery."

Answer: Mr. (Wilkins) Micawber

3. FTP each--what particle is formed from the union of each of the following combinations of quarks:

A. Two up quarks and a down quark?

Answer: proton

B. An up quark and an anti-down quark?

Answer: pion or pi plus or positive pion

C. Three strange quarks?

Answer: omega minus

4. Name these English composers, FTP each:

A. Ralph [RAFE] Vaughn Williams composed a famous fantasia on a theme of this 16th-century organist to the English royal household.

Answer: Thomas Tallis

B. Going to prison as a conscientious objector during World War II didn't prevent the eventual knighthood of this composer of the opera *King Priam* and the oratorio *A Child of Our Time*.

Answer: Sir Michael Tippett

C. After collaborating with poet Edith Sitwell on 1923's *Facade*, this composer went on to earn 1940s Academy Award nominations for film scores to Laurence Olivier's *Henry V* and *Hamlet*.

Answer: Sir William (Turner) Walton

5. Name these North American lakes:

A. For 5 points, Bagnell Dam on the Osage River created this artificial lake, Missouri's largest reservoir, in a namesake recreational area.

Answer: Lake of the Ozarks

B. For 10 points, Named for a princess, this small lake in Alberta is a popular tourist center due to its location in Banff National Park.

Answer: Lake Louise

C. For 15 points, Mexico is not known for its lakes, but this 50 by 8 mile one south of Guadalajara has the distinction of being Mexico's largest.

Answer: Lake Chapala

6. Identify these would-be political assassins whose attempts failed to kill, FTP each:

A. In 1950, together with Griselio Torresola, this Puerto Rican nationalist made an armed assault on Blair House while President Truman was in temporary residence. Torresola was killed by guards, and this man was imprisoned until 1979.

Answer: Oscar Collazo

B. In 1972, in Laurel, Maryland, a bullet fired by this man paralyzed, but did not kill, presidential candidate George Wallace.

Answer: Arthur Bremer

C. In 1975, in San Francisco, this 45-year-old political activist fired a shot at President Ford from about 40 feet away, but missed.

Answer: Sara Jane Moore

7. Name these fictional officers of the British Royal Navy, FTP each:

A. The heroic character whose Napoleonic-era rise from midshipman to admiral is chronicled in a series of C. S. Forester novels.

Answer: Horatio Hornblower (prompt on "Horatio")

B. The fighting hero of a series of historical fictions by Patrick O'Brian, whose adventures bedeviling the French are always shared by ship's surgeon Stephen Maturin.

Answer: Jack Aubrey (prompt on "Jack")

C. The former captain of the *Asp* and the *Laconia* who finds happiness in his rekindled love for Anne Elliot in Jane Austen's *Persuasion*.

Answer: Frederick Wentworth (prompt on "Frederick")

8. Name these fundamental ideas of computer science discovered by Edsger Dijkstra, FTP each:

A. Dijkstra's name is attached to an algorithm for finding these within a graph.

Answer: shortest paths (for either a "single pair" or "all pairs")

B. These are counters that allow multiple threads of execution to access shared resources without corrupting each other, a fundamental component of all modern operating systems.

Answer: semaphores

C. Dijkstra also invented the three-color, mark-and-sweep method of accomplishing this task incrementally. This feature of Java is often cited as one of its main advantages over C++.

Answer: garbage collection

9. Name these palindromic surnames, FTP each:

A. It is the name shared by a 19th-century German engineer who developed a namesake four-stroke engine cycle, and by the NFL Hall of Fame center who started every game for the Raiders from 1960 to 1974.

Answer: Otto (Nikolaus August and Jim)

B. It is the name shared by the actor who was Gwyneth Paltrow's love interest in *Sliding Doors*, and by the actress who was Steve Martin's love interest in *Roxanne*.

Answer: Hannah (John and Daryl)

C. It is the name shared by a French Vichy government official executed for treason in 1945, and by the 17th-century bishop of Quebec who founded what later became a namesake Canadian university.

Answer: Laval (Pierre and François Xavier de)

10. Given a quote from the King James Bible, identify the biblical book from which it comes, FTP each:

A. "For I the Lord thy God am a jealous God, visiting the iniquity of the fathers upon the children unto the third and fourth generation of them that hate me."

Answer: Exodus

B. "My beloved put in his hand by the hole of the door, and my bowels were moved for him."

Answer: The Song of Solomon

C. "Though I speak with the tongues of men and of angels, and have not charity, I am become as sounding brass, or a tinkling cymbal."

Answer: I Corinthians (or The First Epistle of Paul the Apostle to the Corinthians)

11. Name these small towns in Africa that became famous as 19th-century meeting places, FTP each:

A. This present-day capital of Kigoma province in western Tanzania is famous as the site where Stanley found Livingstone in 1871.

Answer: Ujiji (or Kigoma-Ujiji)

B. In 1896 Italian invaders met, and were crushed by, native defenders under Menelik II at this town in northern Ethiopia.

Answer: Adowa or Aduwa or Adwa

C. In 1898 the meeting of French and British expeditionary forces at this Nile village in southern Sudan sparked a diplomatic dispute that seemed to threaten war.

Answer: Fashoda

12. Answer these related literary questions, FTP each:

A. "The Young Man with the Carnation" is the first of eleven stories in what Isak Dinesen collection whose title evokes a season?

Answer: Winter's Tales

B. In Shakespeare's *The Winter's Tale*, Florizel, the son of King Polixenes, falls in love with what daughter of King Leontes and Hermione?

Answer: Perdita

C. The 1983 novel *Winter's Tale*, a fantasy about New York City, was written by what American whose other works include *A Soldier of the Great War* and *Memoir from Antproof Case*?

Answer: Mark Helprin

13. Consider the following three reversible thermodynamic processes on an ideal gas: isothermal expansion, adiabatic expansion, and isobaric expansion. FTP each--

A. All or nothing, under which process or processes does the gas' temperature rise?

Answer: isobaric expansion

B. All or nothing, under which process or processes does the gas' entropy rise?

Answer: isothermal expansion and isobaric expansion

C. All or nothing, under which process or processes does the gas' internal energy rise?

Answer: isobaric expansion

14. Name the sculptor from works, on a 10-5 basis.

A. 10: the *Lion of Belfort*

5: the *Statue of Liberty*

Answer: Frederic Auguste Bartholdi

B. 10: the Twelve Apostles in New York's Cathedral of St. John the Divine

5: the Mount Rushmore National Monument

Answer: Gutzon Borglum

C. 10: *The Beginning of the World, Torso of a Young Girl*

5: *Bird in Space*

Answer: Constantin Brancusi

15. 30-20-10. Identify the work.

30: The first book is divided into four chapters detailing "Psychopathic States," "Race and Heredity," "Cosmic Factors," and "Imitation."

20: The second book contains the famous classification of the subject matter into egoistic, altruistic, anomic, and fatalistic examples.

10: This sociological study was published in 1897 by Émile Durkheim.

Answer: Suicide or Le Suicide

16. Name these persons who figure in histories of the Spanish-American war, FTP each:

A. This Colorado Senator sponsored a resolution, successfully attached to the declaration of war against Spain, that disavowed any intent to annex Cuba.

Answer: Henry Moore Teller

B. This man joined with Theodore Roosevelt in forming, and then commanded, the First U.S. Volunteer Cavalry unit, also known as the "Rough Riders." He subsequently served as military governor of Cuba.

Answer: Col. Leonard Wood

C. This queen was the Spanish monarch at the time of the conflict.

Answer: Queen Maria Cristina

17. Name these poems that were written as responses to earlier poems by other poets, FTP each:

A. Sir Walter Raleigh is usually named as the author of this poem echoing Christopher Marlowe's "The Passionate Shepherd to his Love."

Answer: "The Nymph's Reply to the Shepherd"

B. This Robert Lowell poem beginning with an image of the old South Boston Aquarium is a response to Allen Tate's "Ode to the Confederate Dead."

Answer: "For the Union Dead"

C. This short Wallace Stevens poem has been interpreted as a 20th-century version of Keats' "Ode on a Grecian Urn": they both concern the power of a symmetrical artifact to tame a wilderness; in this case, in Tennessee.

Answer: "Anecdote of the Jar"

18. It was introduced in a 1968 article in *Nature* and sought to explain the high rate of protein evolution, the constant rate of protein evolution, and the variability of evolution of different parts of proteins. FTP each:

A. Name this theory that there are generally several variations on a protein's form with very close selection coefficients.

Answer: neutrality theory (do not accept "neutral drift" or "genetic drift")

B. Name the Japanese geneticist who introduced the neutrality theory.

Answer: Kimura Motoo

C. The neutrality theory implies the existence of this phenomenon in which the number of years since two species had a common ancestor is roughly proportional to their genetic distance.

Answer: molecular clock or molecular evolutionary clock

19. Given a song made popular by a particular film, name that film, for 5 points each.

A. "Foggy Mountain Breakdown"

Answer: Bonnie and Clyde

B. "Harry Lime Theme"

Answer: The Third Man

C. "Raindrops Keep Falling on My Head"

Answer: Butch Cassidy and the Sundance Kid

D. "Tubular Bells"

Answer: The Exorcist

E. "Colonel Bogey March"

Answer: The Bridge on the River Kwai

F. "Rock Around the Clock"

Answer: The Blackboard Jungle

20. Name the literary work from information about the plot, for 15 points, or for 5 points if you need another clue.

A. 15: Boon Hogganback, Ned McCaslin, and eleven-year-old Lucius Priest are the title thieves in this tale of a trip to Memphis and a stolen automobile.

5: This William Faulkner work won the 1963 Pulitzer Prize for Fiction.

Answer: The Reivers: A Reminiscence

B. 15: This 1892 drama concerns a workers' revolt in a certain Silesian industry in 1844.

5: The title characters are the collective hero of this Gerhart Hauptmann masterpiece.

Answer: The Weavers (or Die Weber)