

FICHTE

Fake Intercollegiate Championship Tournament Experiment

2007-2008 Fake ICT
Packet 6

Tossups

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- Criticisms of this construct involve the impossibility of the conservation of absolute linear momentum as it requires. The action of the system of these results in the Intertropical (*) Convergence Zone.** Their original formulator failed to account for the deflection due to Coriolis forces, and the tricellular theory includes both these phenomena and the Ferrel cells. For 10 points— identify this model of atmospheric circulation which describes the circular flow of air around the equator.

answer: Hadley cells
- One forerunner of this method used it to determine "the religion of Rabelais," and its founder used this approach in such works as *The Wheels of Commerce* and a study of "the Mediterranean world in the (*) age of Philip II."** It involves a three-part division of time, with the broadest being the "longue durée." For 10 points— Lucien Febvre, Marc Bloch, and Ferdinand Braudel were members of what school of historiography?

answer: Annales school
- A dance to the Beyoncé song "Ring the Alarm" was the real cause of this situation, though the person affected by it speculated that breaking up a civil union may have been to blame. A donation to the (*) Yellow Ribbon Fund and a line of orange bracelets resulted from it, and it led to a painkiller addiction storyline and the auction of a cast.** For 10 points— name this on-air injury suffered by a "truthiness" proponent.

answer: Stephen Colbert's broken left wrist (accept obvious equivalents)
- Perhaps originally a god of the Tiwanaku, he used stone for his second creation and dispersed mankind in four directions. He walked onto the ocean at Manta and is sometimes held to have gone all the way to Polynesia under the name (*) Kon-Tiki.** Through his son Inti and daughter Mama Quilla, he was the ancestor of Manco Capac and thus all of the Inca. For 10 points— name this sun and creator god.

answer: Viracocha
- Anthony Nutting blamed this governor of Ecuatoria for his own death in the book *Martyr and Misfit*. Despite the support of Roundell Palmer, Charles Beresford arrived too late to save this man from his last mission. He acquired his (*) nickname by succeeding Frederick Townsend Ward as commander of the Ever Victorious Army.** For 10 points— name this general who later was killed by the Mahdi uprising at the siege of Khartoum.

answer: Charles George "Chinese" Gordon

6. **A March 2006 study from Amsterdam Free University showed that these items can be a means of transmitting viruses, and in 2008 Hitachi announced a way to use them in (*) products** that are sterilized by gamma radiation, which damages their older models and has delayed their use in supermarkets. For 10 points— name these projected replacements for bar codes, which transmit low-power signals about attached products.

answer: RFID or Radio Frequency Identification chips/tags etc

7. **Their use results in monolayer formation past the CMC point. Their solubilities increase strongly past the (*) Krafft point,** and the SDS-PAGE technique is based on the interaction of proteins with this class of compounds. Most of them operate by capturing target molecules in globs consisting of hydrophobic tails and hydrophilic heads called micelles. For 10 points— identify this class of chemicals which lower the surface tension of liquids, examples of which include detergents.

answer: surfactants (accept detergents before it is read)

8. **This man wore dresses to high school and attended his college classes in full clown regalia. He was the star player for a 2007 team that got crushed by Missouri in the Cotton Bowl after winning a triple-overtime game with (*) LSU.** This prolific father finished as the runner-up consecutively to Troy Smith and Tim Tebow in Heisman voting. For 10 points— name this man who led the SEC in rushing in 2007 while playing for Arkansas.

answer: Darren McFadden

9. **One work of this man includes Habrotonon, a slave who identifies Charisius as the rapist of Pamphila. This author of *The Girl Who Was Shorn* and *The Shield* also wrote a play about Sostratus, who falls in love with the daughter of the (*) ill-tempered Knemon.** That is his only play which is close to entirely extant. For 10 points— name this author of *The Arbitration* and *Dyskolos*, the prime example of Greek New Comedy.

answer: Menander

10. **On behalf of Ossian Sweet, this author of *An Eye for an Eye* collaborated with Arthur Garfield Hays. He quoted Omar Khayyam and asked why one person's life should be bound up with Nietzsche in a certain speech. The McNamara brothers, (*) Big Bill Haywood, and Leopold and Loeb were among his clients.** For 10 points— name this attorney who argued with William Jennings Bryan at the Scopes trial.

answer: Clarence Seward Darrow

11. **This creator of the *Forgotten Offertories* co-founded the artistic circle Young France and incorporated bird songs into several works in the 1950s. He used the gamelan and the electronic ondes martenot in the ten-movement (*) *Turangalila Symphony*.** The "praise to the immortality of Jesus" and "liturgy of crystal" appear in a work he composed at the Görlitz POW camp. For 10 points— name this creator of the *Quartet for the End of Time*.

answer: Olivier Eugène Prosper Charles Messiaen

12. **In one of this director's films, his wife appeared as the woman pining for a circus strongman played by Anthony Quinn; in another, his wife played Masina, a charming prostitute, in (*) *Nights of Cabiria*.** The murder-suicide perpetrated by Steiner and the aimless journalist Marcello figure in one of his most notable films. For 10 points— name this director of *La Strada*, *8 1/2* and *La Dolce Vita*.

answer: Federico Fellini

13. **One of his poems alludes to a "terrible breath" and asks "what had you been thinking about," while another describes the "gliding" of "swift blades" and is found in his volume *Rivers and Mountains*. He also wrote a poem about "the right (*) hand, bigger than the head, thrust at the viewer."** For 10 points— name this author of "The Skaters," "Some Trees," "The Tennis Court Oath," and "Self-Portrait in a Convex Mirror."

answer: John Ashbery

14. **His last act before dying was to lobby for the passage of a military draft, and he had earlier advocating fortifying Liège and Namur to protect his country's neutrality. His agents used such methods as holding families hostage and (*) cutting off limbs to perpetrate the "rubber atrocities" in his personal domain, which then became the Belgian Congo. For 10 points— name this king of Belgium from 1865 to 1909.**

answer: Leopold II

15. **Joined from above by the Reissner membrane, it has a namesake tunnel that divides the inner row of sensory receptors for the 8th nerve from three outer rows of cells. Parallel displacement of the (*) stereocilia joined by tip links leads to influx potassium influx to its hair cells, which innervate spiral ganglia of the auditory nerve. For 10 points— name this structure that discerns frequencies via the basilar membrane, an organ in the cochlea.**

answer: organ of Corti

16. **He was victorious at the Battle of Bothwell Bridge, but he was banished after becoming a popular choice for succession during the Popish Plot. The son of Lucy Walter and Charles II, his attempt to (*) seize the throne was ended at Sedgemoor and led to 800 followers being transported to Barbados after George Jeffreys oversaw the Bloody Assizes. For 10 points— name this man who tried to overthrow James II in 1685.**

answer: James Scott, Duke of Monmouth, Duke Of Buccleuch, Earl Of Doncaster, Earl Of Dalkeith, Baron Scott Of Tindale, Lord Scott Of Whitechester And Eskdale

17. **His character discovers a purported "chocolate river" in *Epic Movie*, and he proclaimed the aphrodisiac value of farting in *Van Wilder*. He may be better known for a fantasy sequence involving marriage to a giant bag of (*) marijuana before he orders thirty sliders with the help of Neil Patrick Harris. For 10 points— name this actor who starred alongside John Cho as White Castle fan Kumar Patel.**

answer: Kal Penn (or Kalpen Suresh Modi)

18. **One person in this story laments that he only found love after his hair turned gray. After going to bed for the first time, the couple in this work takes a trip to Oreanda, where the narrator notes the perfection of a constantly noisy sea. The title figure, (*) Anna, is encountered on a beach by Dmitry Gurov during a vacation to Yalta in, for 10 points— what Anton Chekov short story in which a pet proves a good opening for a date?**

answer: "The Lady with a/the Lapdog" or "The Lady with a/the Little Dog" or "Dama s sobachkoi"

19. **A passage in this book discusses the "edifying thoughts of a tobacco smoker," and one chapter compares a figure to the author of *The Gateless Gate*, Mumon. Starting with "a musico-logical offering," it attempts to show that (*) artificial intelligence can emerge from a formal system, much like patterns in drawings and music. For 10 points— name this Douglas Hofstadter text about "an eternal golden braid" between three figures.**

answer: Gödel, Escher, Bach: An Eternal Golden Braid

20. **During his second term as prime minister, he ended the president's power to dissolve governments due to corruption. He had lost his first government due to Ghulam (*) Khan's use of that rule, and he later led his country into the Kargil War before he was deported to Saudi Arabia twice, returning in 2007. For 10 points— name this man overthrown by Pervez Musharaff in 1999 as president of Pakistan.**

answer: Muhammad Nawaz Sharif

21. **One of his books takes place five years after the assassination of Emily Forrester and sees John Jay University professor Gideon Wolfe travel to Africa. Another of his books sees Sara Howard caught up in (*) Theodore Roosevelt's attempt to find a murderer by the use of Laszlo Kreizler, the titular psychologist. For 10 points— name this author of *Killing Time*, *Angel of Darkness*, and *The Alienist*.**

answer: Caleb Carr

22. **This phenomenon is the central operating principle of the Lyot filter. In solids, magnetic fields can be used to induce this in the (*) Voight effect.** Its strength is directly proportional to the electric field in the Pockels effect and proportional to the square of the field in the Kerr effect. Naturally exhibited by such minerals as calcite, for 10 points— identify this property in which a crystal has different indices of refraction along different propagation axes.

answer: birefringence

23. **One of his works derides present-day Marxism as "magic" after outlining the "crisis of understanding."** In addition to *The Adventures of the Dialectic* and other political works such as (*) *Humanism and Terror*, he reflected on the subjectivity of gestalt and discussed the relationship between Husserl and sense experience. For 10 points— name this writer of *The Structure of Behavior* and *Phenomenology of Perception*.

answer: Maurice Merleau-Ponty

24. **The DPLL algorithm employs backtracking to solve it, while the Chaff algorithm is a more efficient version which also tackles this problem. Richard Karp showed that both the clique and the knapsack(*) problems reduce to it.** The first known NP-complete problem, for 10 points— identify this problem which asks whether for a Boolean expression written with only AND, OR, NOT, and variables, there exists an assignment of truth values to the variables to make the whole expression true.

answer: satisfiability

25. **A type of house endemic to this city is found near the Nikolai canal in its Deichstrasse. Surrounded by such towns as Harvesterhude and Rotherbaum, this city is home to the Lombard Bridge and docks connected by canal to the Alster. Along with (*) Bremen, it is one of two cities in Germany to compose the entirety of a state.** For 10 points— name this Elbe River metropolis, a large northern port.

answer: Hamburg

26. **The government of this country agreed to stop funding the African National Congress in the Nkomati Accord. Its current ruling party was founded by Eduardo Mondlane, who was then succeeded by Samora Machel before that party defeated (*) Renamo in this country's first free elections.** For 10 points— since independence in 1975, the Frelimo party has been the sole government of what former Portuguese colony?

answer: Mozambique

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Bonuses

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1. His military career culminated in his leadership of the People's Militia, a political purge force. For 10 points each—
- A. Name this man whose next job was as the leader of communist Bulgaria starting in 1954, a post he would not relinquish until 1989.
answer: Todor Zhivkov
- B. Zhivkov replaced this man, known as "Little Stalin," as party head, then purged him with the approval of Khrushchev to cement his own power.
answer: Vulko Chervenkov
- C. Zhivkov clumsily reminded the world of Bulgaria's existence by approving the assassination by ricin umbrella of this dissident playwright in London in 1978.
answer: Gyorgi Markov
2. For 10 points each— name these cities in Kansas:
- A. Now the second-largest city in Kansas, this suburb of Kansas City is the headquarters to various corporations, such as Sprint.
answer: Overland Park
- B. Remaining the state's largest city, this city on the Arkansas River is at the center of a metro area including Derby, Park City, and Andover.
answer: Wichita
- C. Found on the Kansas river in Douglas County, this home to the Dyche Museum may be better known as the home of the University of Kansas.
answer: Lawrence
3. Identical to the modern Spanish town of Garray, this ancient city was attacked without success by Cato the Elder and five others. For 10 points each—
- A. Name this city which sparked a Roman diplomatic crisis when it captured Gaius Hostilius Mancinus in 137.
answer: Numantia
- B. Mancinus was successfully ransomed by this tribune, who four years later was clubbed to death in the fallout from his scheme to portion out public lands.
answer: Tiberius Sempronius Gracchus (prompt on Gracchus)
- C. That same year, Numantia was finally taken by this general, who had previously completed the siege and destruction of Carthage in the Third Punic War.
answer: Publius Cornelius Scipio Aemilianus Africanus Numantinus (or Scipio Africanus Minor; or Scipio Africanus the Younger; prompt on Scipio Numantinus; do not accept or prompt on Scipio Africanus)

4. Its quantum analogues are the Ward-Takahashi identities. For 10 points each:
- A. Identify this theorem which associates a conserved current to each symmetry of nature.
 answer: Noether's theorem
- B. The conservation of electric charge follows from invariance under these kinds of transformations, which leave the physics of the situation unchanged.
 answer: gauge transformations
- C. The electroweak theory is one example of this kind of gauge theory, named after the two physicists who developed it, one of whom won a Nobel for his explanation of parity violation.
 answer: Yang-Mills theory
5. He led the Ultras during the reign of his brother, Louis the 18th, whom he succeeded in 1824. For 10 points each—
- A. Name this final Bourbon king of France.
 answer: Charles X
- B. The last government formed under Charles X was led by this conservative prince, whose attempt to restore absolutism led to Charles's downfall.
 answer: Jules de Polignac
- C. Charles was overthrown in this 1830 event, which created a namesake "monarchy" led by Louis-Philippe.
 answer: July Days or July Revolution or Révolution De Juillet
6. The title character falls for Clement Sebastian, but falls depressed when Sebastian dies in a boating accident. For 10 points each—
- A. Name this novel about a pianist who dissapoints Howard Gordon, then drowns in a pond.
 answer: Lucy Gayheart
- B. *Lucy Gayheart* was written by this author of *O Pioneers!* and *Death Comes for the Archbishop*.
 answer: Willa Cather
- C. Another Cather novel about a musical woman is this one in which Howard Archie helps the Coloradoan Thea Kronborg become an opera star.
 answer: The *Song of the Lark*
7. He proposed that business cycles fluctuate in fifty-year "waves." For 10 points each—
- A. Name this Soviet economist.
 answer: Nikolay Dmitriyevich Kondratyev
- B. Another theorist of business cycles was this proponent of "creative destruction" who wrote *Capitalism, Socialism, and Democracy*.
 answer: Joseph Schumpeter
- C. A later intepreter of the "long wave" idea was this German Trotskyist who wrote *Power and Money* and *Late Capitalism*.
 answer: Ernest Mandel
8. It is dominated by the Messier object called M87, and was prominent in early maps of the universe produced by Shapley and Ames. For 10 points each:
- A. Name this huge assemblage of galactic clusters which includes the Local Group.
 answer: Virgo supercluster
- B. The Virgo supercluster is being pulled towards this huge gravitational anomaly that really sucks a lot of stuff towards itself and is located in the Norma cluster.
 answer: the Great Attractor
- C. This gigantic structure, discovered by its namesake Digital Sky Survey, may be the largest single structure in the known universe, and is named similarly to a structure discovered in 1989 by CfA2.
 answer: Sloan Great Wall (prompt on Great Wall)

9. For 10 points each— name these superdelegates who have pledged for Barack Obama:
- A. This first Muslim in Congress represents Minnesota and sparked a brief talk-radio crazy party when he was sworn in on a Quran.
 answer: Keith Ellison
- B. This man defeated Kerry Healey in 2006 to succeed Mitt Romney as governor of Massachusetts.
 answer: Deval Patrick
- C. This first-term Missouri Senator defeated Republican Jim Talent's re-election bid in 2006.
 answer: Claire McCaskill
10. The inheritance of the Dark Fiddler is stolen and Vreli and Sali die at the end of this opera. For 10 points each—
- A. Name this opera, including the "Walk to the Paradise Garden" and based on a Gottfried Keller novel.
 answer: *A Village Romeo and Juliet*
- B. *A Village Romeo and Juliet* was composed by this creator of *Irmelin*, *Appalachia*, and *Briff Fair*.
 answer: Frederick Theodore Albert Delius
- C. "Near the Plantation" and "By the River" are among the movements of this Delius suite, written at a Solano Grove orange farm.
 answer: *Florida Suite*
11. He referred to the Kansas-Nebraska Act as a "crime" and "in every respect a swindle." For 10 points each—
- A. Name this staunchly anti-myrmidon Senator from Massachusetts, who was caned by Preston Brooks for his words.
 answer: Charles Sumner
- B. Sumner was later kicked off the Foreign Relations Committee by the machinations of Grant after stopping the plan to annex this Spanish colony.
 answer: Santo Domingo (prompt on Dominican Republic)
- C. Sumner died in the presence of this German-born reformer and newspaper editor, who went on to create national forests as Interior Secretary under Hayes.
 answer: Carl Schurz
12. For 10 points each— name these 2007 releases for the Sony PSP.
- A. A private detective whose brain is now floating in a jar must find his titular body part in this Vicious Cycle-developed game.
 answer: *Dead Head Fred*
- B. The PSP saw a version of the sequel to this 2004 Rockstar release about working for a snuff film director.
 answer: *Manhunt*
- C. The title *Size Matters* was issued for the PSP in this series, which follow a Lombax and a robot using various bizarre tools.
 answer: *Ratchet and Clank: Size Matters*
13. For 10 points each— name these Austrian writers:
- A. The comedy *Thou Shalt Not Lie* was a misstep from this author of *The Ancestress*, *The Golden Fleece*, and *The Jewess of Toledo*.
 answer: Franz Grillparzer
- B. This librettist of *Elektra* and *Der Rosenkavalier* also wrote the non-operatic works *The White Fan* and *Arabella*.
 answer: Hugo von Hofmannsthal
- C. This contemporary female author used herself as the model for Erika Kohut in *The Piano Teacher* and also wrote *Greed* and *Women as Lovers*.
 answer: Elfriede Jelinek

14. For 10 points each— name these receptors of the skin:
- A. Nerve endings sensitive to pain are supplemented by these discs surrounding the base of an epithelial cell sensitive to light touch.
 answer: Merkel's discs
- B. Found in hairless skin, these rapidly adapting corpuscles consists of a naked nerve ending surrounded by a laminated capsule, and are responsive to shear forces.
 answer: Meissner's corpuscles
- C. The most widely distributed encapsulated receptors are these large fluid-filled corpuscles visible to the human eye that are sensitive to pressure.
 answer: Pacinian corpuscles
15. The nearest town to this complex is Masvingo, and twenty thousand people once lived in the polity centered here. For 10 points each—
- A. Name this set of stone remains, including Conical Tower, the Great Enclosure, and the Hill Complex, found in a namesake southern African country.
 answer: Great Zimbabwe
- B. Great Zimbabwe is now known to have been built by ancestors of this Bantu-speaking culture, now found northeast of the Lundi River in Zimbabwe.
 answer: the Shona
- C. Eight column capitals carved from soapstone in the shape of this kind of animal adorn Great Zimbabwe and are now a symbol of the modern-day country.
 answer: Zimbabwe birds
16. It ends with the execution of Pothinus. For 10 points each—
- A. Name this epic poem which follows the dissolution of the First Triumvirate through the murder of Pompey and Caesar's turn to Egypt.
 answer: Pharsalia or Bellum civile
- B. This author of such lost works as the *Silvae* and a *Medea* wrote the *Pharsalia*.
 answer: Marcus Annaeus Lucanus
- C. Lucan killed himself after the failure of the Piso conspiracy against Nero, much like this Stoic author of *Mad Hercules* and *The Pumpkinification of Claudius*.
 answer: Seneca
17. In 2006, he posted his fourth consecutive year of improved batting average and home runs from the previous season. For 10 points each—
- A. Name this speedy left fielder for the Tampa Bay Rays.
 answer: Carl Crawford
- B. The only previous player to have such a streak was this two-time triple crown winner for the 1920s Cardinals who is second all time in batting average.
 answer: Rogers Hornsby
- C. This Brewers closer gave up a home run to Crawford in the 2007 All-Star Game.
 answer: Francisco Cordero
18. For 10 points each— name these Catholic councils:
- A. This 1215 summit transferred the lands of Raymond of Toulouse to Simon de Montfort, adopted the doctrine of transubstantiation, and condemned the Cathari.
 answer: Fourth Lateran council
- B. In 1245 and 1274, two councils were held at this French city, the first to convene the Seventh Crusade, the second to attempt to reunite with the Eastern church.
 answer: Councils of Lyon
- C. Eventually moved to Ferrara, this council elected the Antipope Felix V and deposed Eugenius IV in a post-Constance expression of the conciliar movement.
 answer: Council of Basel

19. For 10 points each— name these musical acts:
- A. "I Will Possess Your Heart" is found on the newest release, *Narrow Stairs*, from this group of "Soul Meets Body" and "Crooked Teeth" fame.
 answer: Death Cab for Cutie
- B. Jim James is the leader of this Kentucky-based group whose albums include *It Still Moves* and *Z*, featuring such songs as "Just One Thing."
 answer: My Morning Jacket
- C. *Like Water for Chocolate* and *Be* are among the albums of this rapper, and include such songs as "The Light" and "The Sixth Sense."
 answer: Common (or Lonnie Rashied Lynn)
20. It is proportional to a constant obtained by summing over all neighbors and which can also be found through the Ewald method. For 10 points each:
- A. Identify this quantity associated with a solid that is proportional to the Madelung constant.
 answer: lattice energy
- B. This process, an application of Hess's law, can be used to determine lattice energy experimentally.
 answer: Born-Haber cycle
- C. The lattice energy can also be calculated from this empirical formula, if the charges and the atomic radii are known.
 answer: Kapustinskii equation
21. Along with his pessimistic advisor Ziya ud Din Barani, he lost control of the Deccan plateau to the Bahmani. For 10 points each:
- A. Name this most competent namesake ruler of the Islamic dynasty that succeeded the Khalji in north India.
 answer: Muhammad ibn Tughluq
- B. The Khalji and Tughluq were among the ruling houses considered a part of this group, named for the major Indian city from which they reigned.
 answer: Delhi sultanates
- C. The last Delhi sultanate was this one, which ended when its king Ibrahim lost to the Mughals at Panipat.
 answer: Lodhi
22. For 10 points each— name these figurehead queens of the Netherlands:
- A. The current queen, she saw her eldest son Johan Friso give up his claim to succession in 2004.
 answer: Beatrix
- B. This mother of Beatrix took the throne in 1948 and abdicated in 1980.
 answer: Juliana
- C. Her fifty-eight year reign helped keep the Netherlands neutral in World War I and resilient during World War II.
 answer: Wilhelmina
23. Athena got her name of Pallas during this event, which involved piling mountains to reach Olympus. For 10 points each—
- A. Name this event that occurred between a group with a thousand heads each and the gods, who received an assist from Heracles.
 answer: the Gigantomachy (or the war between the Olympians and the Giants, etc)
- B. This merman son of Poseidon invented a conch trumpet to blow at the Giants, briefly scaring them off.
 answer: Triton
- C. Athena revealed that this leading warrior of the giants should be dragged away from Pallene by Heracles, removing his immortality.
 answer: Alcyoneus

24. For 10 points each— answer some questions about that most versatile of circuit elements, the op-amp:
- A. In addition to having infinite open-loop gain, the ideal op-amp also has an infinite value for this parameter, which represents the maximum rate of change of the op-amp output.
answer: slew rate
- B. Inserting a capacitor into the negative feedback loop of an op-amp performs this operation on an analog input signal.
answer: integration (accept logical equivalents)
- C. The op-amp golden rules state that the op-amp has infinite input impedance, resulting in the input current to the terminals having this value.
answer: zero
25. It includes five sub-plays, such as *In the Beginning* and *As Far as Thought Can Reach*. For 10 points each—
- A. Name this unbelievably long work, which posits that "creative evolution" will ultimately produce twenty year olds who emerge from eggs.
answer: *Back to Methuselah*
- B. This writer of *Pygmalion* and *Androcles and the Lion* penned *Back to Methuselah*.
answer: George Bernard Shaw
- C. In this Shaw play, Ellie Dunn's attempt to marry Boss Mangan is disliked by Hussy Hushabye and thwarted by the elderly Captain Shotover.
answer: *Heartbreak House: A Fantasia in the Russian Manner on English Themes*
26. For 10 points each— name these volcanoes in Ecuador:
- A. Just seven miles away from Quito, this peak, which saw a notable 1822 battle, continues to issue intermittent minor eruptions.
answer: Guagua Pichincha
- B. This highlight of the Cordillera Occidental in the Andes contains the farthest mountainous point from the center of the Earth.
answer: Chimborazo
- C. Found in the Cordillera Central and notably high for a volcano, this peak climbed by Wilhelm Reiss has a minor cone called the Inca's Head.
answer: Cotopaxi