LADUE INVITATIONAL SPRING TOURNAMENT 2012

Round 14

TOSS-UPS

1. This law was originally discovered by the Arabic Ibn Shal, and it can be derived from Fermat's Least Time Principle, since a ray of light will follow a path to a point that minimizes time, not distance, causing a kinked path. The equation in this law cannot be satisfied above the "critical angle," leading to (*) total internal reflection, and that equation states that the ratio of the sines of two angles is proportional to the ratio of the two speeds of light. For ten points, identify this law named after its Dutch formulator, which can find the angle of refraction as light passes through two different mediums.

ANSWER: Snellius's Law

<MS>

2. One of this author's works includes the chapters "The Holy Church of Zion" and "The Defiance Campaign." Another of this author's novels begins "Perhaps I could have saved him, with only a word...but I never spoke" and is about police officer Peter van Vlaanderen. This author of Ah, But Your Land is Beautiful and (*) Too Late, the Phalarope wrote a novel in which a letter from Theophilus Msimangu informs the protagonist that Gertrude is ill. When the protagonist arrives, he learns of the murder of Arthur Jarvis by his son Abaslom. For ten points, identify this South African author most famous for a novel about Stephen Kumalo, Cry, the Beloved Country.

ANSWER: Alan Paton

<MS>

- 3. This man's travels in Brazil would later result in the Rio da Duvida being named after him. He signed the Gentleman's Agreement with Japan, and John Schrank attempted to assassinate this man while he was giving a speech. He appointed Gifford Pinchot as head of the US Forestry Service and also increased railroad regulations by signing the (*) Elkins and Hepburn Acts. This man brought a suit against the Northern Securities Company and led the Rough Riders in the charge up San Juan Hill in the Spanish American War. For ten points, name this founder of the Bull Moose party, a US president who implemented a "Square Deal" and succeeded the assassinated McKinley. ANSWER: Theodore "Teddy" Roosevelt (prompt on partial)
- 4. One character in this video game claims, "A man chooses, a slave obeys." In one ending to this game, the aged player is surrounded on his deathbed by five adult women he had saved. This game's Dr. Tenenbaum discovered a slug that can be implanted in the stomachs of girls from Frank Fontaine's orphanages. This game begins with a (*) plane crash in the middle of the ocean near a lighthouse, followed by the protagonist discovering Andrew Ryan's underwater city Rapture. For ten points, name this 2007 videogame where the protagonist, Jack, fights enemies such as "Splicers" and "Big Daddies" to rescue "Little Sisters" and can genetically engineer himself with "Plasmids."

ANSWER: Bioshock

<LC>

- 5. Novices of this religion must complete the pile fey and bathe with clothes on in an initiation ceremony called Kanzo. Devotees of this religion believe in a love deity named Erzulie, an evil spirit named Baka, and a storm deity called Shango. Temples of this religion are called "Hounfour", and they house the priests collectively called "Houngans." Its chief deity is (*) Bondye, and devotees of this religion pray to spirits like Baron Samedi and Papa Legba, known as Loas. For ten points, name this syncretic religion practiced in Haiti, that includes zombies and sticking pins in namesake dolls. ANSWER: Voodoo (accept Vodun, Vodoun, and Vodou)

 KT>
- 6. The Moessbauer spectra of tin salts has shown a strong correlation to this property, and this property can explain the inductive effect observed in sigma bonds. Neon exhibits this property the most on the Allen scale, while this quantity's equalization was developed in a model by Sanderson. Slater's rule is applied to find the effective nuclear charge used in the (*) Allred-Rochow definition, while it can also be found by taking the average of the first ionization energy and electron affinity using the Mulliken definition. Caesium exhibits this property the least, and is assigned a value of 0.7 on a scale developed by its formulator, Linus Pauling. For ten points, name this chemical property that describes an atom's tendency to attract electrons towards itself.

ANSWER: electronegativity

<EnzeC>

7. While Hisham was ruler of this empire, it suffered a defeat from the Byzantines at the Battle of Akroinon, causing Hisham to be succeeded by his brother Yazid II. Under the rule of Marwan II, this empire moved its capital to Harran, and this dynasty's rule ended after the Battle of Zab. Charles Martel defeated this dynasty's Abdul Rahman at the Battle of (*) Tours, but this empire still kept Cordoba, and it ruled from Spain all the way to the western tips of India. For ten points, name this first Islamic caliphate with capital at Damascus that was followed by the Abbasids. ANSWER: Umayyad Caliphate (accept equivalents to "Caliphate" like "Empire" or "Dynasty") <KT>

8. This author wrote a play in which Mildred faints after witnessing the cursing Yank, who later dies after opening the cage of the title creature. This author also wrote about Nina, who bears a child with Ned Darrell rather than Sam Evans. In addition to writing *The Hairy Ape* and *Strange Interlude*, this author wrote a work in which the murderer Brutus becomes king of a Caribbean island, but is shot with a (*) silver bullet. This author of *The Emperor Jones* also wrote a play in which a group waits for Theodore Hickman in Harry Hope's saloon and a more famous work concerns the tuberculosis-infected Edmund and the morphine addict Mary Tyrone. For ten points, name this playwright of *The Iceman Cometh* and *Long Day's Journey Into Night*.

ANSWER: Eugene Gladstone O'Neill

<KT>

9. The complete graph on this many vertices is the smallest which cannot be drawn without edge crossings, and the cosine of pi divided by this number is equal to one-half the golden ratio. This is the only number that is part of two twin prime pairs, and the Abel-Ruffini theorem states that there is no general solution to (*) polynomials of this degree or higher. Polygons with this many sides have an average interior degree measure of 108. This number is in a Pythagorean triple with three and four, because three-squared plus four-squared is equal to twenty-five, the square of this number. For ten points, give this number of sides in a pentagon.

ANSWER: five

<MS>

10. One politician from this country covered up a loan from millionaire Egon Geerkens. On March 18th, 2012, this country elected Joachim Gauck to replace disgraced President Christian Wulff. The current leader of this country claimed that multiculturalism had "utterly failed" due to the recent influx of (*) Turkish Muslims. The two main parties in this country are the Social Democratic and the Christian Democratic. For ten points, identify this largest economy in the European Union, which Chancellor Angela Merkel leads from its capital at Berlin.

ANSWER: Federal Republic of **Germany** (or **Bundesrepublik Deutschland**)

 $\langle MS \rangle$

HALFTIME

11. This god rejected the advances of the nymph Clytie and eventually turned her into a flower. Emperor Julian the Apostate attempted to revive worship of this Greek deity in the Roman empire and he gave Heracles a golden goblet after he threatened to shoot this god. His daughters turned themselves into poplar trees and flowed tears of amber after their brother died and fell into the river Eridanus. This father of the witch (*) Circe gave a dragon-pulled chariot to his granddaughter Medea after she killed her two sons. Odysseus' men were killed for eating the sacred cattle of this deity, whose son was responsible for blackening the Ethiopian people. That son was killed by Zeus after he failed to control a celestial chariot. For ten points, name this father of Phaeton, the Greek god of the sun.

ANSWER: <u>Helios</u> [do not accept <u>Sol</u>, accept <u>Apollo</u> before "golden goblet"]

 $\langle BZ \rangle$

12. In one work by this author, Octave de Malivert dies of sorrow in Greece after he is rejected by Zohiloff; that work is *Armance*. In a more famous work, the protagonist gets imprisoned in the Farnese Tower after murdering a manager, but is rescued by Aunt Gina, who later marries Count Mosca. That protagonist himself comes to love Clelia Conti, who dies a few months after their child passes away. In his most famous work, the protagonist shoots Madame de (*) Renal after she exposes his previous affair, which leads Marquis to cancel his marriage with his lover, Mathilde de la Mole. For ten points, name this author who wrote about Fabrizio del Dongo in *The Charterhouse of Parma* and about Julien Sorel in *The Red and the Black*.

ANSWER: Stendhal (or Marie-Henri Beyle)

 $\langle KT \rangle$

13. Two figures in the central group of this painting mimic the ones found in Raimondi's engravement of *The Judgement of Paris*, while the main figure was modeled after the painter's wife, Suzanne Leenhoff. A rowboat can be seen in the background of this painting, and a woman with a tilted head picks up something from the ground. A basket of fruit and a (*) yellow hat rest on the ground in front of the central group, and two men in black casually converse with one another. The main figure of this painting rests her head on her hand and looks directly at the viewer; unlike the men, she is naked. For ten points, name this painting about the title meal, by Edouard Manet.

ANSWER: <u>Luncheon on the Grass</u> (Accept Le <u>Dejeuner sur l'herbe</u>)

 $\langle KT \rangle$

14. Yermak Timofeyevich explored Siberia in the name of this ruler. This ruler conquered Kazan and Astrakhan but was defeated by Stephen Batory and Sigismund II in the Livonian War. He abdicated his throne to Simeon Bekbulatovich for a year. This ruler organized the *streltsy*, suppressed the power of aristocratic families with his *oprichnina*, and called the first "assembly of the land," or (*) *zemsky-sobor*. This Rurik ruler accidentally killed his chosen heir, which forced him to appoint the mentally disabled Feodor I as his successor instead. For ten points, identify this first Russian tsar who was known for his extreme cruelty.

ANSWER: <u>Ivan the Terrible</u> (or <u>Ivan IV</u>; or <u>Ivan Grozny</u>; or <u>Ivan Vasilyevich</u>; prompt on "Ivan") <JD>

15. A tarn is one of these features that forms in a cirque, while paternoster ones are linked in succession. The epilimnion and hypolimnions reverse seasonally in the dimictic type of these entities, while holomictic ones are not stratified. Limnic eruptions in these structures can increase their carbon dioxide content, and oligotrophic ones lack primary productivity. (*) Kettle ones are formed by retreating glaciers, and the main source of outflow for endorheic ones is evaporation. Point bars can form oxbow types of these structures from a meandering river, and these features can also be formed when water collects in volcanic calderas. For ten points, name these inland bodies of water exemplified by freshwater ones in North America named Huron and Superior, which are bigger than ponds.

ANSWER: lakes

<HX>

16. This state's highest point is Mount Greylock, which lies in the Taconic Mountains near the Housatonic Valley. Its western portion contains the Berkshires, and this state's cities of Northampton, Holyoke, and Springfield lie on the Connecticut River. Olmsted Park, the Prudential Center, and the Old North Church are located in this state's largest city, which lies at the mouth of the (*) Charles River. Other cities in this state include Worcester, Lowell, and Plymouth. This state's islands of Martha's Vineyard and Nantucket lie south of Cape Cod. It borders New Hampshire to the north and Rhode Island to the south. For ten points, identify this New England state with capital at Boston.

ANSWER: Commonwealth of Massaschusetts

<JD>

17. This quantity is relatively inelastic below the kink in the curve depicting it for an oligopoly, and the Markovian type of it is often used to model inventory control. The Slutsky identity relates two types of these quantities which compensate for substitute and income effects, the Marshallian and Hicksian types. Veblen and Giffen goods violate the law of this quantity, and the (*) "aggregate" type of this quantity refers to the total sum of it in an economy. This quantity is usually inversely related to price, and a surplus may result if it's low. For ten points, name this quantity, the amount of a good the public is willing and able to buy, which is often paired with supply.

ANSWER: demand

 $\langle HX \rangle$

18. Early periods in this region were known as the Jeulmun and the Mumun and ancient kingdoms in this region used the "bone ranks" system. Sejon the Great once ruled a "hermit kingdom" based in this region. A general from this region's Yi dynasty used "turtle boats" to repel the fleet of Toyotomi Hideyoshi. This region was also home to kingdoms such as (*) Silla and Goryeo, which were a part of this region's Three Kingdoms Period. One conflict which occurred in this region ended at Panmunjom and included an invasion at Inchon. This region's North and South are separated by the DMZ along the 38th Parallel. For ten points, identify this region whose two countries have capitals Pyongyang and Seoul.

ANSWER: Korean Peninsula

<JD>

19. The first "Concert" one of these compositions by Alexander Glazunov was notably arranged by Felix Blumenfield, and the second movement of Pyotr Ilyich Tchaikovsky's sixth symphony is one of these in the unusual 5/4 time. Franz Lehár's *The Merry Widow* includes a "Gold and Silver" one of these compositions, and Franz Liszt wrote four of them titled (*) "Mephisto." One of these compositions by Frédéric Chopin evokes the image of a dog chasing his tale and is actually longer than the "Minute" its title suggests, while another of these compositions begins D-D-F sharp-A-A and is named after a river that runs through Vienna. *The Blue Danube* is an example of, for ten points, which musical form, a dance commonly in three-four time and the "king of" which is Johann Strauss?

ANSWER: waltzes (accept valse or walzer)

<HX>

20. In one of this author's works, Edward chooses Rose Bradwardine over Flora Mac-Ivor after taking part in the Battle of Prestonpans, while in another work he wrote about Frank Osbaldistone's marriage to Diana and his various encounters with MacGregor. In addition to Waverly and (*) Rob Roy, this author wrote a work in which the Presbyterian Jeannie Deans travels to London, and in his most famous work, he wrote about a man who saves Jewess Rebecca from burning and gets Cedric the Saxon's permission to marry Rowena. For ten points, name this author of The Heart of Midlothian and Ivanhoe.

ANSWER: Sir Walter Scott

<KT>

End of regulation, only proceed if tied

21. Carl Correns rediscovered this man's theories after citing his work on hawkweeds. This man accidentally created a new, dangerous strain of bees after unsuccessfully mating them, and he also formulated the idea that different traits are not passed along with each other, but rather are inherited separately. This man also found that offspring receive only one copy of a particular (*) gene from each parent; those are his Laws of Independent Assortment and Segregation. For ten points, name this Austrian monk whose breeding of pea plants led him to be known as "The Father of Genetics". ANSWER: Gregor Mendel

<KT>

22. Along with an Italian, this man names a constant with value equal to the difference between the harmonic series and natural logarithm; that value is about 0.577 and is named for him and Lorenzo Mascheroni. This man proved Euclid's conjecture that there was a bijection between the Mersenne primes and the perfect numbers. The number of natural numbers less than and relatively prime to a given integer is his (*) totient function. This man's namesake path traverses every edge once, and he used graph theory to prove that it was impossible to cross the Seven Bridges of Konigsberg. For ten points, identify this Swiss mathematician whose namesake formula expresses imaginary powers of *e* as complex numbers.

ANSWER: Leonhard Euler (accept Lorenzo Mascheroni early)

<MS>

BONUSES

1. Bonus: The protagonist of this work meets Mrs. Moore outside a mosque. For ten points each:

[10] Identify this novel in which Dr. Aziz is falsely accused of assaulting Adela Quested.

ANSWER: A Passage to India

[10] A Passage to India is a work by this British author, who wrote "only connect" as the epigraph to Howard's End. He also penned The Celestial Omnibus and Where Angels Fear to Tread.

ANSWER: Edward Morgan Forster

[10] In this Forster novel, Lucy Honeychurch breaks off her engagement to Cecil Vyse and elopes with George Emerson.

ANSWER: A Room with a View

<MS>

2. Bonus: According to legend, Pheidippides ran 26 miles to report the Greek victory at this battle to Athens. For ten points each:

[10] Identify this 490 BC battle in which the far outnumbered Greeks under Miltiades defeated the Persian army of Darius the Great.

ANSWER: Battle of Marathon

[10] Ten years later, Darius's son Xerxes also tried to invade Greece, but his navy was defeated by Themistocles at this 480 BC naval battle which occurred off an island near Athens.

ANSWER: Battle of Salamis

[10] In 477 BC, the Greek city-states decided to form this league in order to continue fighting against Persian invasions.

Athens abused its power as head of the league, which later led to the Peloponnesian War.

ANSWER: Delian League

 $\langle JD \rangle$

3. Bonus: This element is the fourth most common on earth and is found with calcium in dolomite. For ten points each: [10] Identify this metal whose sulfate may also be called Epsom salt. Its hydroxide closely resembles milk, and it burns with an extremely bright, white light.

ANSWER: magnesium (accept Mg)

[10] Along with calcium and beryllium, magnesium belongs in this group of metals in the periodic table.

ANSWER: alkaline earth metals (accept Group IIA; do not accept or prompt "alkali metals")

[10] This other alkaline earth metal glows a faint blue and was previously used in self-luminous paints. It was also the source of alpha particles in the gold-foil experiment.

ANSWER: radium (accept Ra)

<EnzeC>

4. Bonus: *n* of them divide the plane into at most one-half times quantity *n*-squared plus *n* plus two sections. For ten points each:

[10] Identify these geometric constructs, one-dimensional figures which extend infinitely in each direction.

ANSWER: lines

[10] Ceva's Theorem gives a condition for three lines in a triangle to have this property of all meeting at a point.

ANSWER: concurrency (accept word forms)

[10] Like a line, this figure extends infinitely, but only in one direction.

ANSWER: ray

<MS>

5. Bonus: His wife Lee Krasner aided him in the completion of his Full Fathom Five. For ten points each:

[10] Name this American painter of Lavender Mist who was nicknamed "Jack the Dripper."

ANSWER: Paul Jackson Pollock

[10] This other painter, influenced by Freud and Jung, painted using powerful combinations of colors, as exemplified by his *Magenta*, *Black*, and *Green on Orange*, and committed suicide after discontinuing his Seagram murals project.

ANSWER: Marcus "Mark" Rothkowitz

[10] Pollock and Rothko were leading painters in this post-World War II art movement, which advocated paintings with deep emotional reactions. The artists in this movement may use random brushstrokes to create their paintings.

ANSWER: Abstract Expressionism

<KT>

6. Bonus: She helped found the House Tea Party Caucus, and opposes minimum wage increases. For ten points each:

[10] Name this Minnesotan Republican who believes that the HPV vaccine give children Autism and supports teaching creationism in classrooms. She suspended her presidential campaign on January 4th, 2012.

ANSWER: Michele Marie Bachmann

[10] In August 2011, Michele Bachmann became the first woman to win this event, which is held on an Iowa university campus. In 2007, Mitt Romney won this event, while in 1999, George Bush was the victor.

ANSWER: **Ames Straw Poll** (prompt on partial, do not accept Iowa caucus/primary)

[10] This man entered the 2012 presidential race after Bachmann won the Iowa Straw Poll. He famously could not recall the third federal agency he wanted to eliminate, and he dropped out of the race after finishing fifth in the Iowa caucuses.

ANSWER: James Richard "Rick" Perry

 $\langle DA \rangle$

7. Bonus: This agency established over 1,000 schools and enrolled more than 90,000 former slaves. For ten points each:

[10] Name this federal agency that was established after the Civil War to aid former slaves through food, housing, education, health care, and employment.

ANSWER: Freedman's Bureau

[10] The Freedman's Bureau was a central component during this period of US history that saw the passage of the thirteenth, fourteenth, and fifteenth amendments, and the attempt to integrate the South back into the Union.

ANSWER: Reconstruction

[10] This derogatory term was used to refer to southern whites who supported Reconstruction.

ANSWER: scalawags

<EnzeC>

8. Bonus: The protagonist of this novel attends school with Peter Keating. For ten points each:

[10] Identify this novel in which architect Howard Roark befriends Gail Wynand and loves Dominique Francon. He is ultimately found not guilty of blowing up the Cortlandt housing project.

ANSWER: The Fountainhead

[10] *The Fountainhead* is a work by this founder of Objectivism, who wrote about Kira Argouvna in her first novel, *We the Living*.

ANSWER: Ayn **Rand** (or Alisa Zinov'yevna **Rosenbaum**)

[10] Rand is perhaps best known for this work, in which Dagny Taggert buys Rearden metal to build her railroads. The government nationalizes just about everything, so she hides in a community created by John Galt.

ANSWER: Atlas Shrugged

<MS>

9. Bonus: He was the product of Thyestes' incestuous relationship with his daughter Pelopia. For ten points each:

[10] Identify this murderer of Atreus and king of Mycenae, who had an affair with Clytemnestra. He then helped Clytemnestra kill her husband.

ANSWER: Aegisthus

[10] This son of Atreus and husband of Clytemnestra was murdered upon his return from the Trojan War after he came back with the seer Cassandra as a concubine.

ANSWER: **Agamemnon**

[10] This son of Agamemnon and Clytemnestra killed Aegisthus and his mother with the help of his sister Electra.

ANSWER: Orestes

 $\langle BZ \rangle$

10. Bonus: Name some things related to object-oriented programming, for ten points each:

[10] This object-oriented programming language, originally named "Oak," was developed by James Gosling at Sun Microsystems. Its syntax is similar to that of C and C++, and it runs via a namesake virtual machine.

ANSWER: <u>Java</u> (do not accept or prompt on "JavaScript")

[10] "String" and "ArrayList" in Java are examples of these structures of OOP, others of which can be built using constructors. "Abstract" ones cannot be instantiated, and C++ supports "inner" types of them.

ANSWER: classes

[10] Classes can be derived from other classes through this process, which allows subclasses to access methods of their parent classes. Unlike Java, C allows for the "multiple" form of this process.

ANSWER: inheritance

<HX>

- 11. Bonus: Playing pieces in this game include a battleship, a thimble, an iron, a top hat, a racecar, and a Scottie dog. For ten points each:
- [10] Identify this board game in which players roll dice to move their pieces around the board and use their supply of paper money to purchase various properties, such as colored streets, railways, and utilities.

ANSWER: Monopoly

[10] This most expensive piece of property in the original *Monopoly* game costs \$400 and lies between the "Go" and "Luxury Tax" squares. This property is in the dark blue color group with Park Place.

ANSWER: Boardwalk

[10] This red-colored piece of property lies between Indiana Avenue and B&O Railroad. It is notable for being the most landed-on piece of property.

ANSWER: **Illinois** Avenue

<JD>

12. Bonus: This council was preceded by a failed attempt at Pisa. For ten points each:

[10] Name this church council that ended the Western Schism and burned Jan Hus burned at the stake for promoting Utraquism. Much to the ire of Martin V and other popes, it declared that future councils should meet every 10 years.

ANSWER: Council of **Constance**

[10] Before the Western Schism, the only pope lived in this French city. The papacy was kept here after Boniface VIII was imprisoned and killed by Philip IV of France.

ANSWER: Avignon

[10] The papacy traditionally resides in this city, the location of the Chair of St. Peter. This Italian city is home to the Holy See.

ANSWER: **Rome** (prompt on **Vatican** City)

<MS>

- 13. Bonus: Their capacity can be measured with a spirometer, and they contain around 200 million alveoli each. For ten points each:
- [10] Name this pair of respiratory organs found in the chest cavity, which receive blood via the pulmonary artery.

ANSWER: lungs

[10] The lungs are situated above this thin, thoracic muscle. It contracts during inhalation, reducing the inter-thoracic pressure and drawing air into the lungs.

ANSWER: diaphragm

[10] The lungs are surrounded by this double serous membrane. The space between its parietal and visceral layers contains a namesake fluid that is constantly produced and reabsorbed.

ANSWER: pleural membranes

<HX>

14. Bonus: He confronted Johann Tetzel over the sale of indulgences. For ten points each:

[10] Identify this German priest who nailed his 95 Theses to the door of a church in Wittenberg, thus beginning the Protestant Reformation.

ANSWER: Martin Luther

[10] In response to Luther's 95 Theses, Pope Leo X issued this papal bull which condemned Luther's doctrines.

ANSWER: Exsurge Domine (also accept Arise, O Lord)

[10] Luther was later summoned by Charles V to this imperial diet that took place in a certain German city. During it, Luther said "Here I stand; I can do no other. God help me."

ANSWER: Diet of Worms

 $\langle JD \rangle$

15. Bonus: This work sees Prince Bolkonsky wounded at the Battle of Austerlitz and later killed at Borodino. For ten points each:

[10] Identify this very long novel which follows the lives of aristocratic families in Moscow, which ends after Prince Pierre Bezukhov marries Natasha.

ANSWER: War and Peace (or Voyna I Mir)

[10] This author of *War and Peace* wrote about Pozdnyshev's murder of his wife in *The Kreutzer Sonata* and the title character's love for Vronsky in *Anna Karenina*.

ANSWER: Lev (Leo) Nikolayevich Tolstoy

[10] In this Tolstoy novella, the title character becomes ill after a fall, but is comforted by the servant Gerasim.

ANSWER: The <u>Death of Ivan Ilyich</u> (or <u>Smert Ivana Ilyicha</u>)

<MS>

16. Bonus: His Suite No. 5 for harpsichord ends with a movement titled "The Harmonious Blacksmith," and his *Water Music* premiered on a royal barge on the river Thames. For ten points each:

[10] Name this German-born English composer who composed *Music for the Royal Fireworks* to celebrate the end of the War of the Austrian Succession.

ANSWER: George Frideric Handel

[10] Handel is perhaps best known for this work, which includes the aria "I know that my redeemer liveth." Its "Hallelujah Chorus" apocryphally inspired King George II to stand.

ANSWER: Messiah

[10] Handel's *Messiah* is a work of this type, which often deal with sacred topics. Mendelssohn's *Elijah* is a work of this type, as is Haydn's *The Seasons*.

ANSWER: oratorio

<HX>

17. Bonus: Name some straits from around the world, for ten points each:

[10] This strait connects the Mediterranean Sea to the Atlantic Ocean and separates Spain from Morocco. It is approximately 9 miles wide at its narrowest point.

ANSWER: Strait of Gibraltar

[10] This strait separates Tierra del Fuego from the South American mainland. It is named for the explorer who passed through during his circumnavigation of the globe.

ANSWER: Strait(s) of **Magellan** (or **Magellanic** Strait)

[10] This strait separates Tasmania from mainland Australia. Islands in this strait include King Island and Flinders Island.

ANSWER: Bass Strait

<JD>

18. Bonus: It maintains that one's life should be devoted to upholding ren, yi, and li. For ten points each:

[10] Name this Chinese philosophical system which also stresses filial piety and altruism. Its teachings can be found in its namesake's *Analects*.

ANSWER: Confucianism

[10] According to Confucianism, a leader who does not act with ren, or humanity, towards his subjects may lose this concept, which refers to a divine right to rule.

ANSWER: "Mandate of Heaven" (accept Tian ming)

[10] Confucianism also maintained that the less a king does, the more gets done, an idea similar to this other Chinese philosophy's concept of wu wei. Its most important text is attributed to Laozi.

ANSWER: Daoism or Taoism

<HX>

19. Bonus: This force holds quarks and antiquarks of the same color together to form unstable mesons. For ten points each:

[10] Name this fundamental force, mediated by the gluon, which holds the nucleus of an atom together.

ANSWER: **strong** nuclear force (or **strong** interaction)

[10] Theories of this type combine the strong force with the electromagnetic and weak forces, postulating that they are all just one fundamental force.

ANSWER: Grand Unified Theories or GUT (prompt on "Unified")

[10] This fundamental force is not included in grand unified theories. Newton created a Universal Law for this force, which keeps the planets in orbit.

ANSWER: gravity (accept gravitation)

<LC>

20. Bonus: In 1984, a severe drought forced the last uncontacted group of these people out of the Gibson Desert. For ten points each:

[10] Identify these indigenous people of Australia who make music with their didgeridoos.

ANSWER: Aborigines (or Aboriginal Australians)

[10] This other group of people were first contacted by Dutch explorer Abel Tasman and they later fell under British rule in the 1840 Treaty of Waitangi. These people are natives of New Zealand.

ANSWER: Maori

[10] These Swahili-speaking people participated on both sides of the Mau Mau Uprising. They are natives of Kenya.

ANSWER: Kikuyu

<JD>

21. Bonus: It praises "a jug of wine, a loaf of bread, and thou." For ten points each:

[10] Identify this collection of hundreds of quatrains, which was famously translated by Edward FitzGerald.

ANSWER: The Rubaiyat

[10] *The Rubaiyat* is the most famous work of poetry by this author. This man was also a pretty good mathematician, discovering the general solution for the cubic equation hundreds of years before his Western counterparts.

ANSWER: Omar Khayyam

[10] Omar Khayyam wrote all his poetry in this language. The national epic of Iran, the *Shahnameh*, is also written in this language.

ANSWER: Persian (or Farsi, do not accept Arabic)

<MS>

22. Bonus: He gave the "History Will Absolve Me" speech after failing to capture the Moncada barracks. For ten points each: [10] Identify this first communist leader of Cuba, who handed power to his brother Raul in 2006.

ANSWER: Fidel Alejandro Castro Ruz

[10] Castro came to power after overthrowing this US-backed dictator in 1959. This figure fled to the Dominican Republic and later died in Portugal.

ANSWER: Fulgencio Batista y Zaldivar

[10] This Argentine Marxist revolutionary assisted Castro in overthrowing Batista and later tried to instigate uprisings in Congo-Kinshasa and in Bolivia, where he was captured and executed.

ANSWER: Ernesto "Che" Guevara (accept either or both)

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