

Bulldog High School Academic Tournament XXI (2012): Oh God, Not the Spider Cows!

By Yale Student Academic Competitions (Robert Batista, Andrew Deveau, Michael P. Garn, Jacob Geiger, Matthew Hoffer-Hawlik, Ben Horowitz, Matt Jackson, Kevin Koai, John Lawrence, Stephen Leh, Charles Stewart McDonald, Isaac Park, Sam Spaulding, Ashvin Srivatsa, David Steinberg, Damian Stobierski, and Spencer J. Weinreich)

Edited by Matt Jackson, with John Lawrence, Ashvin Srivatsa, and Sam Spaulding

Special Thanks to Matt Bollinger and Jeff Hoppes

Round 1 Tossups

1. Coccolithophores, the primary biological sources of this rock, are believed to produce less of it due to acidifying oceans. It's not gypsum, but speleothems such as flowstone may form from this rock as carbon dioxide leaves solution. Travertine is a form of this rock that is deposited by hot springs and often contains aragonite, which is a less-stable polymorph of another mineral in this rock which is birefringent. Upon metamorphosing, this calcite-containing rock and its partially-magnesian analogue dolomite turn into marble. For 10 points, name this sedimentary rock which reacts strongly to acid rain, forms stalagmites, and is made mostly of calcium carbonate. ANSWER: **limestone** [accept **chalk**; accept **dolomitic limestone**; accept **dolomite rock**; generously prompt on "calcium carbonate" and "calcite" and "aragonite" before they are read; generously prompt on "dolostone"; prompt on "lime"; prompt on "quicklime"] <AS>

2. In a picaresque from this country, a desk clerk fails to get his jewels back at an auction after looking for them in a furniture set. In one novel from this country, the giant cat Behemoth and the demon Azazello accompany Woland, a disguise of the devil, on a trip to its capital city. This setting of *The Master and Margarita* was home to an author who declined the Nobel for a work set in its civil war, in which the nurse Lara never reunites with the title medical man. For 10 points, name this home country of Pasternak and Bulgakov, in which *Doctor Zhivago* was set and in which Aleksandr Solzhenitsyn wrote *The Gulag Archipelago*.

ANSWER: **Union of Soviet Socialist Republics** [or **USSR**; or **Soyuz Sovetskikh Sotsialisticheskikh Respublik**; or **CCCP**; or **Soviet Union**; prompt "Russia" or "Soviet Russia"] <SJW>

3. In one video game series, Goldoa's king Dheginsea can become one of these beings at will, and Ena's lover Rajaion is turned into one permanently due to drugs given by Daein's mad king Ashnard. Arya kills one of these named Shruikan [*SHREW-kin*], which had its mind twisted by Galbatorix in a cycle of Christopher Paolini novels. One card of this type was acquired from Rex Raptor in Duelist Kingdom by Joey Wheeler, and has 2400 Attack points. In a 2010 Dreamworks film, Hiccup learns how to train one. For 10 points, name this creature type whose "Red-Eyes Black" kind graces a powerful *Yu-Gi-Oh* card, and may appear with "Dungeons" in a tabletop role-playing game.

ANSWER: black **dragons** [accept black **dragon laguz** and prompt "laguz" until "Arya" is read] <MJ>

4. This conflict's commander Bertrand of Guesclin supported one side in the concurrent War of the Two Peters. Early on in this conflict, one side linked together all its ships so they could only sit there as converted merchant ships destroyed them at the Battle of Sluys. A nine-year reprieve from this conflict was secured with the Treaty of Bretigny, and the failure of Genoese crossbows allowed one commander to "earn his spurs" in its battle of Crécy. Later in this war, an invasion featuring Henry V's longbowmen won at Agincourt. For 10 points, name this series of wars fought between English and French nobles from 1337 to 1453.

ANSWER: The **Hundred Years' War** <MHH>

5. A molecule with this many atoms can undergo umbrella-like nitrogen inversion corresponding to a 1.26 cm microwave resonance. This many protons can be donated by a hexadentate chelating agent often found as a disodium salt, which is known as EDTA. Substitution at the 1 position and this position is described as para. This is the first period whose elements have occupied d orbitals. This many atoms are found in substances like formaldehyde with trigonal planar geometry. This many valence electrons are found in carbon-group elements. For 10 points, give this number, the atomic number of beryllium and the number of atoms in hydrogen peroxide.

ANSWER: **four** [accept anything that refers to **four** of something, such as **four protons** or **fourth period**] <AS>

6. One Eastern god of this type broke off the top of Mount Meru, thereby creating Sri Lanka, and sired the warrior Bhima. A Western god of this thing abducted Oreithyia, and is often grouped with another who fathered the talking horses Balaus and Xanthus. Its Hindu god is Vayu, the father of Hanuman, and in Japan, its controlling god Fuujin is brother to the thunder god Raijin. In Book Ten of the Odyssey, Odysseus's men get a bag containing this from Aeolus; four other Greek gods of it, the Anemoi, align with specific cardinal directions. For 10 points, name this natural phenomenon which Boreas and Zephyrus cause to blow.

ANSWER: gods of the wind [prompt "air" or "sky"] <MJ>

7. In this play, flute music accompanies the appearance of the protagonist's rich older brother. In this play, a mother tells her sons that "attention must be paid" to a man like her husband. One character claims that not being "well liked" will prevent Bernard's son Charley from being successful. The protagonist of this play nearly drives his Chevrolet off the road on the way to New England. Happy's brother never recovered from flunking math. Towards the end of this play, the main character recalls how Biff discovered his adultery with a woman he pretends is a "buyer." For 10 points, Willy Loman commits suicide in what Arthur Miller play?

ANSWER: Death of a Salesman: *Certain Private Conversations in Two Acts and a Requiem* <SJW>

8. This nation's Grand Duke Henry the Bearded was succeeded by Henry the Pious, and the baptism of Mieszko I begins its history. This home of the Piast dynasty established the principle of *liberum veto* for all its legislators. A leader of this non-Austria country relieved the 1683 Siege of Vienna. This nation was ruled by kings of the Jagiellon dynasty in union with Lithuania. Three agreements between this nation's neighbors partitioned it out of existence by 1800, and earlier it was where Nicolas Copernicus wrote. For 10 points, name this nation, which formerly had its capital at Krakow and was invaded on September 1, 1939 by the Nazis.

ANSWER: Poland [or Polska] <DStobierski/MJ>

9. This believer in a human faculty called the "natural light" made an error of reasoning in accepting what he called "clear and distinct" truths; that error is his namesake "circle." He wrote in letters to Princess Elizabeth of Bohemia that the "seat of the soul" might be the pineal gland. This tutor to Princess Christina of Sweden proposed that a malicious demon might be altering all his sensory input, and argued that the mind interacts non-materially with the body, starting off his namesake "dualism." For 10 points, name this author of *Discourse on Method*, a Frenchman who invented a coordinate graphing system and said "I think, therefore I am."

ANSWER: Rene Descartes [or Renatus Cartesius] <MJ>

10. A pastel version of this painting, one of four versions of this painting by the artist, is set to be sold by Sotheby's in May of this year. That version of this painting moves a building in the background much closer to the shore of the yellow water in which two boats are floating. In this painting, two figures in black are walking behind the central figure along the pier, underneath the red-and-yellow streaked sky. For 10 points, name this painting of a figure in black clutching his face and wailing, the masterpiece of Edvard Munch.

ANSWER: *The Scream* [or Skrik] <JL>

11. In this region, a goddess with blue skin and fiery hair watches over an oval-shaped "oracle lake". One building complex here contains heap-like tombs in its Red Palace near the residential White Palace. Devotees from this place use colored sand to make complex circular designs on the ground, and can be divided into Red Hat and Yellow Hat sects. At two years old, this region's holiest man recognized items belonging to his predecessor; that man fled Potala Palace after a 1950 invasion. For 10 points, name this occupied region with its own monastic tradition of Buddhism, whose spiritual leader-in-exile is the 14th Dalai Lama.

ANSWER: Tibet [accept Tibetan community-in-exile until "Potala" is read] <MJ>

12. Op-amps convert a small amount of this quantity into a larger amount of it. In an inductor, it equals the inductance times the time derivative of current. In circuit diagrams, sources of one form of this quantity are represented by a short line adjacent and parallel to a longer line. The integral form of Faraday's law determines the amount of this quantity generated by changing magnetic flux. When the E-field is irrotational, or conservative, its negative gradient is the electric field. For 10 points, name this quantity which measures electric potential energy per unit charge, and which is related to current and resistance by Ohm's law.

ANSWER: voltage [or scalar potential; or electric potential or electrostatic potential before "electric potential energy" is read; accept emf or electromotive force; prompt on "potential" or "potential difference" before "electric potential energy" is read] <AS>

13. In this state, Archbishop John Nienstedt asked his entire Catholic diocese to pray each Friday for a gay marriage ban. A legal settlement in this state overturned the “remain neutral” bullying policy of its Anoka-Hennepin school district, which *Rolling Stone* profiled after a rash of gay suicides. This state, whose government shut down in summer 2011, is home to a former Presidential candidate who claimed that HPV vaccines cause retardation and claimed that she raised 23 foster-children. Senator Al Franken serves, for 10 points, what Midwestern state, the home of former governor Tim Pawlenty and site of a congressional district represented by Michele Bachmann?
ANSWER: Minnesota <MJ>

14. One of this author’s poems describes an entity that fills the plain and hill “With living hues odours” and blows “Her clarion o’er the dreaming earth”. That poem by him declares “I fall upon the thorns of life! I bleed” before asking the title entity to “Make me thy lyre, even as the forest is” and ends with the line “If Winter comes, can spring be far behind?” Another of his poems imagines “two vast and trunkless legs of stone” whose pedestal reads “Look on my works, ye mighty, and despair!”. For 10 points, name this English Romantic poet of “Ode to the West Wind” and “Ozymandias”.
ANSWER: Percy Bysshe Shelley <JL>

15. Though it’s not terra cotta, the first sub-Saharan Africans to use this material were the Nok culture. Large piles of waste still remain from the Kushite kingdom of Meroe’s production of it, and its introduction to China improved Zhou dynasty farming. The secret of refining this substance was developed and kept by the Hittites. This material’s grainy “wrought” form was displaced in the late Middle Ages by the stronger “cast” variant. For 10 points, name this metal which titles an ancient era following the Bronze Age, and was later reinforced to make steel.
ANSWER: iron [or Fe] <MJ>

16. This composer’s works form the basis for a set of 53 arrangements by Leopold Godowsky. A Presto con fuoco coda in G minor closes another of this composer’s pieces, the first of four works inspired by the poetry of Adam Mickiewicz. In addition to those four Ballades for piano, he wrote a piece whose nickname comes from the repeated A-flats and G-sharps that appear throughout the piece. Another piece was supposedly inspired by the sight of a small dog chasing its tail, and “Black Key” and “Tristesse” are the common nicknames for two of his etudes. For 10 points, name this Polish-born composer of such piano pieces as the “Raindrop” prelude and the “Minute” waltz.
ANSWER: Frédéric Chopin <KK>

17. One character in this work sees visions of the Norman Conquest, while another character is tricked by his father into paying for everything on a trip to England. In one section of this work, the butterfly-eating mystic Ayesha leads her village on a pilgrimage into the sea. Rekha Merchant and the mountain-climber Alleluia Cone are both lovers of one of this work’s main characters. This work follows Gibreel Farishta and Saladin Chamcha, who transform into an angel and a devil, respectively, after a hijacked airplane explodes. For 10 points, name this Salman Rushdie novel, which includes an unflattering depiction of Mohammed and was condemned in a *fatwa* issued by the Ayatollah Khomeini.
ANSWER: *The* Satanic Verses <SJW>

18. Sharpey’s fibers adhere this tissue to its enveloping membrane. Cells located in Howship’s lacunae resorb this tissue using hydrochloric acid. The first step in repair of this tissue is the formation of a hematoma. This tissue’s breakdown is promoted by parathyroid hormone. This tissue grows at epiphyseal plates, and it contains inorganic hydroxyapatite. The medullary cavity of long ones may contain hematopoietic tissue, which also produces platelets. This tissue is weakened by rickets, and its mineral density is often reduced by post-menopausal osteoporosis. For 10 points, name this tissue which usually surrounds marrow, is rich in calcium, and makes up the skeleton.
ANSWER: bones [accept compact bone; accept cortical bone; accept long bones; accept flat bones; do not accept or prompt “bone marrow” at any point] <MJ/AS>

19. In one ballet by this composer, harp and strings accompany a lullaby played by a bassoon, which follows the “Infernal Dance.” Superimposed F-sharp major and C-major triads form the namesake chord of another ballet whose protagonist longs for the Ballerina and is killed by the Moor. The title character of that ballet is a puppet. In the first of his ballets commissioned by Sergei Diaghilev, Ivan enters the gardens of Kastchei and catches the title creature. His best-known ballet ends with a sacrificial dance and caused a riot at its 1913 premiere. For 10 points, name this Russian-born composer of such ballets as *Petrushka*, *The Firebird*, and *The Rite of Spring*.

ANSWER: Igor Stravinsky <KK>

20. A suit against one of these institutions established the “actual malice” standard for defamation and was brought by L. B. Sullivan. Another one of these in Alton, Illinois was set back by the murder of abolitionist Elijah Lovejoy, its owner. An heiress to many of them joined the Symbionese Liberation Army after they kidnapped her in 1974. New York’s pre-independence governor William Cosby arrested the owner of another, leading to the 1735 Zenger trial. William Randolph Hearst and Joseph Pulitzer ran competing examples of, for 10 points, what type of publications which run text such as “Dewey Defeats Truman” as their front-page headlines?

ANSWER: newspapers [or newspaper companies; prompt “paper” or “news” alone; prompt “press;” prompt “printing press” or word forms of “journalism”] <MJ>

[STOP HERE]

[You have reached the end of the round. Do not continue reading unless the game is tied or a tossup was thrown out earlier in the round.]

21. These creatures could not be killed to game the *taupou* system according to Derek Freeman, who showed that it was impossible for girls to fake virginity using their blood, as had been told to Margaret Mead on Samoa. Police end a contest between these animals in an anthropology essay describing their fighting as “Deep Play” on Bali, written by Clifford Geertz. In America, they are legally usable for Santería’s most frequent animal sacrifice. For 10 points, name this most populous bird species in the world, which many human tribes have raised for poultry and eggs.

ANSWER: chickens [or cocks]

Round 1 Bonuses

1. Many recent thinkers have focused on the nature of language and its role in creating philosophical problems. For 10 points each, answer these questions about some.

[10] This Viennese thinker refuted the possibility of a private language, likened language to a game, and showed that the word “game” is indefinable in his *Tractatus Logico-Philosophicus* and *Philosophical Investigations*.

ANSWER: Ludwig Wittgenstein

[10] Wittgenstein loved this man’s “Here is a hand” argument. In *Principia Ethica*, this British thinker claimed that “good” is indefinable in terms of natural language, and can only be understood with moral intuition.

ANSWER: G.[eorge] E.[dwin] Moore

[10] Moore also wrote “A Defence Of” this mental faculty, which he believed could wave off doubts about the external world. It also titles a Thomas Paine tract in favor of American independence.

ANSWER: common sense <SS>

2. Ed Witten used conformal field theory to unite various versions of it into M-theory. For 10 points each:

[10] Name this theory-of-everything contender, which states that all particles are made of tiny vibrating strands of energy.

ANSWER: string theory

[10] Different formulations of M-theory yield two different values for the number of compactified spacetime dimensions. Give either value.

ANSWER: ten or eleven [accept either]

[10] These spaces contain representations of all possible states of a given system and are used to study trajectories. For a collection of N free particles, these spaces are 6N-dimensional, corresponding to positions and momenta.

ANSWER: phase spaces [prompt on “phase diagrams” or “phase plots”] <BH/AS>

3. The author of this novel famously said, “I aimed at the public’s heart, and by accident I hit it in the stomach.” For 10 points each:

[10] Name this novel about the struggle of the Rudkus family to survive in Chicago, famous for its grisly descriptions of the city’s stockyards and meat-packing industry.

ANSWER: *The* Jungle

[10] *The Jungle* is by this American Socialist writer whose novel *Oil!* inspired the film *There Will Be Blood*.

ANSWER: Upton Sinclair

[10] Sinclair won the Pulitzer Prize in 1934 for *Dragon’s Teeth*, his third in a series of eleven novels about this protagonist, who was introduced in the novel *World’s End*.

ANSWER: Lanny Budd [accept either] <JL>

4. Answer these questions about unique animals from world history, for 10 points each.

[10] According to slanderers, Incitatus was one of these animals with the unique privilege of being nominated for the consulship by the mad emperor Caligula. Alexander the Great rode one named Bucephalus into battle.

ANSWER: horses [or stallions]

[10] A single giraffe was brought back to this Chinese dynasty from Africa when Zheng He’s Jewel Ship expeditions went in service of this dynasty’s Yongle emperor. The Forbidden City was built during this dynasty.

ANSWER: Ming dynasty

[10] A single elephant named Abu’l Abbas was sent to Charlemagne along with a clock by this Abbasid caliph, who founded the House of Wisdom along with his son al-Mamun.

ANSWER: Harun al-Rashid [prompt “Aaron the Just” or similar answers] <MJ>

5. Answer the following about classical music inspired by swans, for 10 points each.

[10] The best-known movement of Camille Saint-Saëns's *Carnival of the Animals* is "The Swan," which features a lyrical melody played on this string instrument which is held between the knees.

ANSWER: violoncello

[10] A comically high-pitched tenor aria represents the suffering of a roasting swan in "Olim lacus colueram," an aria from this cantata by Carl Orff better known for its bombastic "O Fortuna" movement.

ANSWER: Carmina Burana

[10] The "Swan Turner" is a viola concerto by this twentieth-century German composer who also wrote *Symphonic Metamorphosis of Themes by Carl Maria von Weber* and *Mathis der Maler*.

ANSWER: Paul Hindemith <KK>

6. Victims of this play's title character include Abel Drugger and Sir Epicure Mammon. For 10 points each:

[10] Name this play in which Lovewit's butler, Jeremy, takes advantage of his master's absence due to plague to pose as Captain Face, who promises to make his clients rich.

ANSWER: The Alchemist

[10] *The Alchemist* is by this English comic playwright and contemporary of Shakespeare, who wrote about a Venetian conman in his "animal play," *Volpone*.

ANSWER: Ben Jonson

[10] Knowell employs Brainworm to spy on his son in this Jonson comedy, whose characters include sanguine, phlegmatic, choleric, and melancholic types.

ANSWER: Every Man in His Humour <JL>

7. This type of procedure is used to increase contrast in a microscopic section, typically using a dye and a mordant to generate a colored precipitate. For 10 points each:

[10] Name this type of procedure, an example of which is named for Gram and used to classify bacteria.

ANSWER: biochemical staining [accept Gram stain]

[10] Gram-negative bacteria turn this color upon counterstaining with safranin. L cone cells primarily absorb this color of light. This color is also the color of lycopene and of a compound which turns bluish in cyanosis.

ANSWER: red or pink [accept obvious equivalents like "reddish" or "pinkish" or "red-pink"; do not accept answers that contain "purple" or "violet" or obvious equivalents]

[10] This sugar, composed of N-acetylglucosamine and N-acetylmuramic acid monomers, is the substance detected by the Gram stain. Its production is inhibited by penicillin and it is destroyed by lysozymes.

ANSWER: peptidoglycan [or murein] <AS>

8. Answer these questions about Greek life. No, not college frats; we mean the lives of actual ancient Greeks. For 10 points each:

[10] The helots of Sparta served in this socio-economic role, which defeated peoples were often kidnapped into during war. Athenian citizens often employed at least one of them in the household.

ANSWER: slaves [prompt "unfree laborers" or whatever]

[10] Athens and Sparta were referred to by this ancient Greek term for city-states of the classical period in which the propertied male citizenry had a role in governing.

ANSWER: polis

[10] Archaeologists have learned a lot about Greek culture from the black-figure and red-figure art on these large, long-necked vases with two handles.

ANSWER: amphorae <MJ>

9. Bob runs a video game company whose products are so addictive that he needs capital to expand. For 10 points each, help him by answering these questions about the financial markets.

[10] Bob can sell equity shares on the open market because these entities underwrote him. Examples of them include Goldman Sachs and the Citi arm of Citigroup.

ANSWER: **investment bank** [prompt “bank”; prompt “financial services company;” prompt “securities firm”]

[10] Bob’s shares are bought and sold on this fully electronic public stock exchange, second behind the New York Stock Exchange in terms of market capitalization. Its namesake Composite stock index hovers around 3000.

ANSWER: **NASDAQ** [or **N**ational **A**ssociation of **S**ecurities **D**ealers **A**utomated **Q**uotations]

[10] After Bob gets underwritten, investment banks sell his shares directly to investors in this type of sale, held on the first day that his stock can be publicly traded.

ANSWER: **initial public offering** [or **IPO**; prompt “launch”] <MHH>

10. He depicted a white dog staring up at the title couple in *Mr. and Mrs. William Hallett*. For 10 points each:

[10] Name this English portraitist who depicted a man with a shotgun leaning on a tree next to his seated wife in a blue dress in *Mr. and Mrs. Andrews*.

ANSWER: Thomas **Gainsborough**

[10] Thomas Gainsborough is best known for this portrait of Jonathan Buttall who is wearing the title color.

ANSWER: *The* **Blue Boy**

[10] Gainsborough’s rival, Joshua Reynolds, was the first president of this British artistic institution, centered in Burlington House, London, in which post he was succeeded by Benjamin West.

ANSWER: **Royal Academy** of Arts <JL>

11. The study of these objects began with Euler’s investigation of the bridges of Königsberg. For 10 points each:

[10] Name these mathematical objects which consist of a collection of vertices connected by edges.

ANSWER: **graphs**

[10] The Euler characteristic for planar graphs is two, which is the same as for polyhedra with this property.

Polygons with this property must have no internal angles larger than 180 degrees.

ANSWER: **convexity** [accept **convex polyhedra**; accept **convex polygons**; do not accept “concavity”]

[10] In other words, convex polygons can contain no angles of this type, which are defined by measuring between 180 degrees and 360 degrees.

ANSWER: **reflex** angles <AD/AS>

12. For 10 points each, answer the following questions about the nine worlds in Norse mytho-geography:

[10] The squirrel Ratatosk relays messages up and down this structure between the root-gnawing dragon Nidhogg and a hawk in its branches. It’s a huge tree connecting all nine worlds.

ANSWER: **Yggdrasil** [prompt “World Tree”]

[10] This realm of the gods is connected to Midgard by the rainbow bridge Bifrost. It contains Valhalla and the Plains of Ida.

ANSWER: **Asgard**

[10] Surt, the leader of this fiery realm, will emerge and set Midgard on fire at Ragnarok. It lies below Midgard and south of Niflheim.

ANSWER: **Muspellheim** <SS>

13. This man meets the Court Chaplain in the Cathedral, where he is told the story of a man seeking entrance to The Law. For 10 points each:

[10] Name this character, who turns to Herr Huld and the painter Titorelli in hopes of understanding his situation.

ANSWER: **Josef K.** [Accept either]

[10] Josef K. is the main character of this surreal novel, in which he is accused of a crime, the nature of which he is unable to discover.

ANSWER: *The* **Trial** [Accept “**Der Process**”]

[10] This Prague-born author wrote *The Trial*, along with works like *The Metamorphosis* and *Amerika*.

ANSWER: Franz **Kafka** <SJW>

14. In 1940, four French teens and their dog stumbled across some stunningly preserved paintings in this location near Montignac. For 10 points each:

[10] Identify this complex of caves found before the ones at Chauvet, famed for its seventeen-thousand-year-old paintings of animals by the Magdalenian Culture during the Stone Age.

ANSWER: Lascaux cave[s]

[10] A “Great Hall” named for four black paintings of these creatures is a large chamber at Lascaux. People are shown leaping over these creatures in frescoes at Knossos, a Minoan archaeological site on Crete.

ANSWER: bulls [or aurochs]

[10] A prehistoric foot-tall sculpture with giant breasts, found at Willendorf, is given the name of this goddess since its original subject is unknown. A sculpture of this Roman goddess, found on Milo, is now armless.

ANSWER: Venus [do not prompt “Aphrodite”]

15. This political movement was also known as the Risorgimento, and was aided by the French monarch Napoleon III so France could gain a military advantage against Austria. For 10 points each:

[10] Name this movement which successfully created a new country in 1861 due to patriot Giuseppe Garibaldi and his volunteer army of Red Shirts.

ANSWER: movement for the unification of Italy [accept equivalents which specify unifying the Italian peninsula under one country]

[10] This conservative ally of Garibaldi, the prime minister of Piedmont, became the first prime minister of unified Italy under his monarch, Victor Emanuel II.

ANSWER: Camillo Benso, Count of Cavour [accept either underlined name]

[10] This earlier loose network of secret societies agitated for the Risorgimento, and included a young Garibaldi as well as Giuseppe Mazzini. Metternich’s Concert of Europe had them put down by 1831.

ANSWER: Carbonari <MHH>

16. This usually yellow element smells like rotten eggs and has more allotropes than any other element except carbon. For 10 points each:

[10] Name this element, the nonmetal component of galena and sphalerite.

ANSWER: sulfur [accept S]

[10] In this process, bonds are formed among separate polymer chains to increase their rigidity. Durabilization of rubber via vulcanization involves bonds among sulfur atoms as part of this process. In vivo, cysteine does this.

ANSWER: cross-linking [or word forms]

[10] Thermosetting to make these polymer-based chemicals is another type of cross-linking. They may be derived from petrochemicals. Rubber is a natural one, Bakelite was the first synthetic one, and PVC is another example.

ANSWER: plastic [accept thermosetting plastic] <JG/AS>

17. This denomination believes their namesake Book was revealed to Joseph Smith in 1830 in the form of golden plates. For 10 points each:

[10] Name this Christian offshoot centered in Salt Lake City, Utah, which officially banned polygamy in 1890.

ANSWER: Mormons [or Mormonism; or LDS Church; or Church of Jesus Christ of Latter-Day Saints]

[10] It is the norm for nineteen-year-old Mormon males to undertake this task for two years after receiving the title of Elder in the Melchizedek priesthood and intensely studying another language.

ANSWER: go on mission abroad [or serve as a missionary or close equivalents; prompt “baptizing people” or answers like that]

[10] In the Book of Mormon, this Christian people of the Americas is wiped out by the godless Lamanites. Their name reflects descent from a brother of Laman with four namesake books within the Book of Mormon.

ANSWER: Nephites [or sons of Nephi] <MJ>

18. One man implicated in this scandal, Oliver North, now hosts a show on Fox News about “War Stories.” For 10 points each:

[10] Name this affair in which secret American arms sales to an Islamic Republic were meant to help get hostages rescued and make money to illegally fund anti-Communist paramilitaries in Nicaragua.

ANSWER: **Iran-Contra** scandal/affair

[10] This Republican President, a former Hollywood actor, was not punished during the Iran-Contra scandal. In 1989, he was succeeded by his vice president, George H. W. Bush.

ANSWER: Ronald Wilson **Reagan**

[10] By signing the Simpson-Mazzoli act, Reagan became the only president to effect this legal procedure. It affected about three million people, though it specified those who had resided within the United States before 1982.

ANSWER: granting **amnesty** to illegal immigrants <MJ>

19. Name some celebrities who have come out of the closet, for 10 points each.

[10] This talk-show host came out on *The Oprah Winfrey Show*, and married actress Portia de Rossi in 2008. She also provided the voice for Dory in *Finding Nemo*.

ANSWER: Ellen Lee **DeGeneres**

[10] This former child star is openly gay, but has played straight as the title character of *Dr. Horrible’s Sing-Along Blog* and as Barney Stinson in *How I Met Your Mother*.

ANSWER: Neil Patrick **Harris** [accept **NPH**]

[10] This singer of “For Your Entertainment” and “Whataya Want From Me” came in second on season 8 of *American Idol*, and came out in a *Rolling Stone* interview shortly afterwards.

ANSWER: Adam Mitchel **Lambert** <SJW>

20. The speaker of this poem realizes that “Death is the remedy all singers dream of” while listening to Ray Charles and reading “Adonais.” For 10 points each:

[10] Name this poem that begins “Strange now to think of you, gone without corsets & eyes,” written for the death of the poet’s mother, Naomi.

ANSWER: **"Kaddish"**

[10] This other poem by the author of “Kaddish” describes a creature “whose breast is a cannibal dynamo,” named Moloch, and opens with the line “I saw the best minds of my generation destroyed by madness.”

ANSWER: **"Howl"**

[10] “Kaddish” and “Howl” are by this poet of the Beat movement.

ANSWER: [Irwin] Allen **Ginsberg** <JL>

21. Answer some questions about Mediterranean islands, for 10 points each:

[10] Only one half of this Mediterranean island gained admission to the EU in 2004; it is divided by a pacified “Green Line” between a Turkish north and a Greek-speaking south.

ANSWER: Republic of **Cyprus** [or **Kıbrıs Cumhuriyeti**; or **Kıpriaki** Demokratia]

[10] This small, three-island archipelago nation has the only recognized Semitic language in the EU. This intensely Catholic nation attracts tourists to churches built by the Hospitallers.

ANSWER: Republic of **Malta** [or Repubblika ta’ **Malta**]

[10] The *ensaimada* pastry is traditional on this island northeast of Ibiza, which is itself flanked by the Cabrera and Dragonera islets.

ANSWER: **Mallorca** [or **Majorca**] <SL>