

Bulldog High School Academic Tournament XXI (2012): Oh God, Not the Spider Cows!
Written by Yale Student Academic Competitions
Edited by Matt Jackson, with John Lawrence, Ashvin Srivatsa, and Sam Spaulding

Round 4 Tossups

1. One composition of this type exists in three versions, the chamber orchestra version having been rediscovered by John Rutter. That work features an organ-accompanied soprano aria for its “Pie Jesu” movement and was written by Gabriel Fauré. Another work of this type features the tenor aria “Ingemisco” and four offstage trumpets in its “Tuba mirum” section. They typically include a setting of the “Dies irae,” and one of these compositions in D minor was completed by Franz Xaver Süssmayr. For 10 points, name these masses for the dead, which include the most famous non-operatic work of Giuseppe Verdi and one left unfinished by Wolfgang Amadeus Mozart.

ANSWER: requiems [or requiem masses; prompt on mass] <KK>

2. In one work, this man wrote, “The pallor of girls' brows shall be their pall; / Their flowers the tenderness of patient minds” of the title figures. In that poem, this man asks “What passing-bells for these who die as cattle?” The speaker of another of this man’s poems sees, “Dim, through the misty panes and thick green light, / As under a green sea,” a man dying in a gas attack. This poet described soldiers, “Bent double, like old beggars under sacks,” as victims of “the old Lie”. Name, for 10 points, this English First World War poet of “Anthem for Doomed Youth” and “Dulce et Decorum est.”

ANSWER: Wilfred Edward Salter Owen <SJW>

3. One being of this name was married to a non-Athena Pallas; she was the first Titan to ally with Zeus against her own kind, and bore four children who include the victory goddess Nike. That being is a goddess or *daimon* of hatred. Though it’s not Acheron, many people brought a coin in their mouth when they visited a place of this name. That source of life-binding oaths was visited by Thetis, who brought her baby here and held it by the heel, which made Achilles invincible. Charon ferried men across, for 10 points, what river of the Greek underworld?

ANSWER: the river Styx <RB>

4. The 2011 Ringle report reassessed official policy towards these people, who were antagonized by John L. deWitt. New arrivals to this group were prohibited in exchange for improvements in their schooling by way of the 1907 “gentleman’s agreement.” A florist plaintiff named Fred brought forward a Supreme Court case on behalf of this group. Ronald Reagan paid reparations to members of this ethnic group who had been targeted by Executive Order 1066. For 10 points, name this ethnic group of Americans which was forcibly interned during World War II after their country of origin attacked Pearl Harbor.

ANSWER: Japanese-Americans [prompt “Asian-Americans,” prompt “Japanese people”] <MJ>

5. If a call is the “tail” variety of this, a functional language will not add that call to the stack. Memoization provides a faster alternative to this concept, which is exponentially slow in the case of computing the Fibonacci numbers. This idea is the basis for divide-and-conquer algorithms, which break a problem down into smaller sub-problems until either a stack overflow occurs or a base-case problem is reached. This concept is also used by the relation that defines the Fibonacci sequence and by the factorial function. For 10 points, identify this concept in computing, wherein a function references itself.

ANSWER: recursion [accept word forms; do not accept “INCEPTION”] <SS>

6. This commodity was obtained at Dolaucothi in modern Wales and Las Médulas in modern Spain, two Roman sites described by Pliny the Elder. An object promulgated during Diocletian’s rule, the *solidus*, was made of this material. The Colosseum was built over Nero’s villa, named for its decor of this thing. The Parthians forced this substance into the dead or dying mouth of the losing commander at Carrhae, former triumvir Marcus Licinius Crassus, to mock his high social standing. For 10 points, name this metal minted into an ancient coin called the *aureus*, which Romans valued more than silver.

ANSWER: gold [or Aurum; accept gold mines or equivalent until “this product” is being read] <MJ>

7. The Trucial States along this body of water were a British protectorate until 1971. Bandar Khamir is a port city on this body of water just ten miles from its largest island, Qeshm Island. This site of a 1932 pearl divers' riot is home to a deepwater port at Umm Qasr and is the current home of the United States Fifth Fleet. In January, the USS *Abraham Lincoln* passed into this body of water despite threats, going through the Strait of Hormuz connecting this body to the Gulf of Oman. For 10 points, name this site of Bahrain, a body of water between Saudi Arabia and Iran.
ANSWER: Persian Gulf <SL>

8. In one scene in this work, an old slave is summoned from the countryside to testify about a murder, while in another, a king accuses a blind soothsayer of being in league with his brother-in-law. A messenger from Corinth brings the news that Polybus has died in this play, while the title character recalls killing an older man at a crossroads. After the suicide of Jocasta, Creon brings in the two daughters of the newly-blind title character. For 10 points, name this play, in which the title king of Thebes realizes that he has killed his father and married his mother, a work by Sophocles.

ANSWER: Oedipus Rex [or Oedipus the King, or Oedipus Tyrannos, or Oedipus the Tyrant] <SJW>

9. In aquatic environments in which this process occurs, floating plants eventually replace phytoplankton as part of the hydrosere. Lichens tend to be the first colonizers of exposed rocks, placing them at the start of the lithosere, which is another example of a seral community which arises in this process. Volcanic ash, being highly fertile, can bring about the allogenic form of this process. In this process's "primary" form, those lichens would be pioneer species. Culminating in the formation of a climax community, for 10 points, name this series of gradual changes in species composition that occur following the disturbance of a community or the colonization of a new habitat.

ANSWER: ecological succession [accept primary succession; accept secondary succession; accept allogenic succession] <RB/AS>

10. An artwork of one of these objects brought forth by F. A. Mitchell-Hedges is made of quartz. Samuel George Morton used hundreds of these objects to classify mankind into four races with different cc quantities; Stephen Jay Gould refuted that research on these objects in his book *The Mismeasure of Man*. Franz Gall's followers examined bumps in these objects to determine personality types in the pseudoscience of phrenology, and one of them was forged for the Piltdown Man archaeology hoax. For 10 points, name this set of bones providing shape for the head.

ANSWER: skulls [or craniums or crania; prompt "heads"] <MJ>

11. A book of this name, which contains the chapter "Arguing Affirmative Action" before summarizing Aristotle, adapts a lecture taught by Michael Sandel at Harvard. This quality is undesirable according to Thrasymachus's second objection. The theoretical "veil of ignorance" is key to *A Theory of* [THIS] by John Rawls, who defines it as fairness. The ideal city is an analogy for this trait in Plato's *Republic*, in which Socrates seeks to define it. For 10 points, name this virtue symbolized by a blind "lady" holding a scale, often equated with people getting what they deserve.

ANSWER: justice <MJ>

12. As a rookie, this man competed with Acie Law, Reggie Williams, and Charlie Bell for playing time. Another team forced him to compete with Toney Stewart and Mike Bibby for playing time while waiting for the injured Baron Davis to recover. Released by the Houston Rockets and Golden State Warriors, this man would set the record for both most turnovers in his first seven career starts and most points scored in his first five career starts since the NBA-ABA merger while leading his current team to a nine-game winning streak. For 10 points, name this evangelical Christian and Harvard graduate, the starting point guard for the New York Knicks and the first Chinese-American NBA player.

ANSWER: Jeremy Shu-How Lin <MHH>

13. This city's nine-man governmental body had its members picked from a bag every two months and nominated a Standard-Bearer of Justice. Its aristocratic "fat people" were rebelled against by a man named Salvestro and this city's guildless wool carders, eight decades after its Black Guelphs exiled many White Guelphs. This city was the site of the Pazzi conspiracy, and much of its art and literature was destroyed in the Bonfire of the Vanities, ordered by the monk Savonarola. This city was run by a banking family which included Cosimo and Lorenzo the Magnificent. For 10 points, name this central Italian city-state ruled by the Medici family, the birthplace of Dante.

ANSWER: Florence [or Firenze] <MJ>

14. In the bottom-left corner of one of his paintings, a man in white-and-yellow hammers nails into the cross, while a man in green grabs at Jesus' red cloak. In another of his works, a figure in shiny blue robes raises his arms skywards while standing in front of a group of nudes that stand in front of green and yellow draperies. In another work by this artist of *The Disrobing of Christ*, saints gathered in heaven watch as St. Stephen and St. Augustine bear the corpse of the title nobleman. For 10 points, name this Spanish Renaissance artist of *The Opening of the Fifth Seal* and *The Burial of the Count of Orgaz*, whose name reflects his Cretan origin.

ANSWER: **El Greco** [or Domenikos **Theotokopoulos**] <JL>

15. In the Laplace-Runge-Lenz vector, this quantity is crossed with linear momentum. J-coupling of this quantity can be used to determine dihedral angles in a form of spectroscopy which can only be used on nuclides with a nonzero value of this quantity. The quantum numbers “m sub L” and “m sub S” correspond to the orbital and spin types of this quantity. Classically, this vector is the time integral of torque and for rigid bodies, it is the product of the moment of inertia and angular velocity. For 10 points, name this quantity, which equals the cross product of position with linear momentum, often symbolized “L”.

ANSWER: **angular momentum** [accept **spin angular momentum**; accept **orbital angular momentum**; prompt on “spin” before it is read; do not accept “momentum” or “linear momentum”] <DSteinberg/AS>

16. One character in this story is tormented by co-workers who claim he is in an abusive relationship with his seventy-year-old landlady. After consuming too much champagne, the protagonist of this story is robbed on his way home from a party given by a fellow clerk. One character in this story known only as the “important person” is haunted by the ghost of the protagonist, whom he killed by scolding. The title object in this story is made by the one-eyed tailor Petrovich. For 10 points, name this story in which Akaky Akakievich saves up to buy the title piece of clothing, by Nikolai Gogol.

ANSWER: *The **Overcoat*** [or *The **Cloak***; or ***Shinel***] <JL>

17. This empire's failure to stop a Mossi siege began its decline. Its prominent generals included Sagmandia, and it traced its founding to a mytho-historical victory at Kirina over the Soso people. This empire was nominally ruled from Niani and largely absorbed by Sunni Ali Ber. The Keita dynasty once ruled this empire, which started the *griot* [*gree-OH*] class of oral poets. Its strongest leader decried the value of gold by giving huge amounts away while on *hajj*. For 10 points, name this Islamic empire ruled by Sundiata and Mansa Musa, which took power in Africa after the Ghana kingdom's collapse and built up Timbuktu.

ANSWER: **Mali** Empire [or **Manden** Kurufa or **Mandinka**] <MJ>

18. The protagonist of one novel by this author asks her neighbor and future love to retrieve a cat from a telephone pole. That cat belongs to a character who kisses Maria, who later becomes the husband of Frank Shabata. One of this author's characters becomes a dressmaker in San Francisco after leaving Black Hawk. In one of her novels, Alexandra Bergson tries to manage her family and in another, Jim Burden describes his love for the title Bohemian girl from the Shimerda family. Both of those novels are set in Nebraska. For 10 points, name this author of *O Pioneers!* and *My Antonia*.

ANSWER: Willa Sibert **Cather** <JL>

19. In Eastern Orthodox churches, this practice can't be done until twelve silver objects are held by twenty-four archimandrites for sanctification. The scriptural basis for this practice comes from Acts 8:14 and 19:1. It can include a touch or slap on the cheek with the injunction “*Pax tecum*”, and the ceremony includes the “laying of the hands” and a blessing with chrism. Candidates must have already been baptized before, for 10 points, what Catholic sacrament in which a youth past the age of discretion receives the Holy Spirit and commits to the Church?

ANSWER: sacrament of **Confirmation** [or **chrismation** before “chrism” is read] <SSp>

20. Compounds containing these structures resonate in the band from 1500 to 1800 wavenumbers in IR spectroscopy. In carbon, sp² hybridization permits formation of these structures. These structures prevent rotation of adjoining groups with respect to one another, giving rise to configurations that can be described using E-Z notation, or less precisely, using cis-trans notation. They are eliminated when unsaturated fats are hydrogenated to yield saturated ones. Alkenes are defined by having at least one of these linkages between two carbons. For 10 points, name these linkages that appear in diatomic oxygen, bonds in which four electrons are shared between two atoms. ANSWER: **double** bonds [accept carbon-carbon **double** bond; accept carbon-oxygen **double** bond; prompt on “bonds”; prompt on “alkenes” or “olefins” before “alkenes” is read; prompt on “carbonyls”; prompt on “pi bonds”; prompt on “carbon-oxygen bond” do not accept “single bonds”] <IP>

[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. A prolonged form of this process is preceded by the elevation of the respiratory quotient above one, which results from increased carbohydrate burning. Aquatic mammals often undergo it in only one cerebral hemisphere. One phenomenon which occurs during this process may come from the synthesis of chaotic signals originating in the pons. One prion disease inhibiting this process is fatal and familial, and prevents its progression beyond the theta-wave-heavy stage 1. Melatonin, which is suppressed by blue light, promotes this process, which is part of the circadian rhythm. For 10 points, name this state whose REM substage includes dreaming.

ANSWER: **sleep** [accept word forms; accept **torpor**; accept **hibernation** or word forms; accept **unihemispherical** slow-wave **sleep**; prompt on “circadian rhythms” after “Melatonin” is read and before “circadian rhythm” is read; prompt “dreaming;” prompt “REM” until “theta-wave” is read]
<Ashvin>

Round 4 Bonuses

1. The main family in this novel includes the children Ruthie and Winfield, the remorseful Uncle John, and the pregnant Rose of Sharon, who is abandoned by Connie. For 10 points each:

[10] Name this 1939 novel about the Okie Joad family's journey west to California during the Dust Bowl.

ANSWER: The Grapes of Wrath

[10] *The Grapes of Wrath* is by this American author, who set the saga of the Trask and Hamilton families in the Salinas Valley in *East of Eden*.

ANSWER: John Ernst Steinbeck Jr.

[10] Steinbeck's first commercial success was this novel about a group of *paisanos* led by Danny who live in the title location, north of Monterey.

ANSWER: Tortilla Flat <JL>

2. The real name of the title character is Dolores Haze. For 10 points:

[10] Name this novel, in which Humbert Humbert seduces his step-daughter, the title "nymphet".

ANSWER: Lolita

[10] *Lolita* is by this Russian-born author, who wrote a novel in which Charles Kinbote edits the masterpiece of John Shade, *Pale Fire*.

ANSWER: Vladimir Vladimirovich Nabokov

[10] Lolita runs away with this character, a depraved playwright who shares Humbert Humbert's love of elaborate literary wordplay.

ANSWER: Clare Quilty [accept either name] <JL>

3. For 10 points each, answer the following questions about religion in India.

[10] The Kumbh Mela is a Hindu pilgrimage to this sacred body of water, during which millions of people ritually bathe in it. Unfortunately, the practice has made this river one of the most polluted in the world.

ANSWER: Ganges River [or Ganga]

[10] This city, located on the banks of the Ganges in Uttar Pradesh, is a major holy site for Hindus. The Buddha is said to have given his first sermon here.

ANSWER: Varanasi

[10] Another river-related festival, this god's Chaturthi, involves immersing clay statues of him in water. This remover of obstacles won a race around the world against his brother to earn the fruit of the gods.

ANSWER: Ganesh <SSp>

4. [Note to moderator: do not read the alternate answers to the second part of the bonus if they are not given.]

Enantiomers are optical examples of these, and diastereomers are another type. For 10 points each:

[10] Give this term for compounds which have the same molecular formulae but different structures.

ANSWER: isomers [accept word forms; accept structural isomers; accept constitutional isomers; accept optical isomers; accept stereoisomers]

[10] In the D/L system for naming organic stereoisomers, compounds are named by relating them to this three-carbon aldose sugar. This sugar is a structural isomer of glyceraldehyde.

ANSWER: D-glyceraldehyde [or D-2,3-dihydroxypropanal; or D-glyceraldehyde]

[10] Glyceraldehyde contains two of this functional group, which is also present in alcohols such as ethanol. As an inorganic anion, it is the strongest base that can exist in aqueous solution, and is often used as a reagent when bound to sodium or potassium.

ANSWER: hydroxide anion [or hydroxyl group; or OH group; or OH minus anion; accept sodium hydroxide; accept potassium hydroxide] <AS>

5. He depicted a truck speeding in the direction of two cars going in the opposite direction in *Death on Ridge Road*. For 10 points each:

[10] Name this American regionalist painter who depicted a couple standing in front of a house, with the man holding a pitchfork, in *American Gothic*.

ANSWER: Grant **Wood**

[10] This man is the central figure in Grant Wood's painting *Parson Weem's Fable*, in which he is seen holding an axe. This man is also the subject of Gilbert Stuart's *Athenaeum Portrait*.

ANSWER: George **Washington**

[10] This other American regionalist created the mural series *America Today* and the mural *A Social History of Missouri*, the state with which he is most associated.

ANSWER: Thomas Hart **Benton** <JL>

6. Answer some questions about a peak of US-Soviet tension in the early 1960s, for 10 points each.

[10] In October 1962, America found Soviet missile silos being built on this Communist-run island ninety miles off the coast of Florida. The US had just embargoed this island led by Fidel Castro.

ANSWER: Republic of **Cuba** [or República de **Cuba**; accept **Cuban Missile Crisis**]

[10] In 1961, by Kennedy's orders, CIA agents tried to stir up an uprising of exiles against Castro starting at this Cuban body of water. They utterly failed within three days.

ANSWER: **Bay of Pigs** invasion [or **Bahía de Cochinos**; or **Playa Girón**; or Battle of **Playa Girón**]

[10] Information about the Cuban missiles was obtained with one of these vehicles. Gary Powers was interrogated after the Soviets found a different one in 1960, triggering a diplomatic incident.

ANSWER: Lockheed **U-2** spyplane [prompt "airplane," prompt "spyplane," prompt "Dragon Lady"] <MJ>

7. Name some stuff about bands who sing songs that mention New York, for 10 points each.

[10] This LCD Soundsystem frontman loves New York, but it's bringing him down and freaking him out.

ANSWER: James **Murphy**

[10] This band's "Honky Tonk Women" mentions a divorcee the singer met in New York City. This band with a tongue logo is known for "Gimme Shelter" and "(I Can't Get No) Satisfaction;" they're led by Mick Jagger.

ANSWER: The **Rolling Stones**

[10] "New York City Cops" was removed from the American release of this band's album *Is This It* after the 9/11 attacks. Their lead singer is Julian Casablancas, and they're credited with helping kick off a garage rock renaissance.

ANSWER: The **Strokes** <AD>

8. This phenomenon is depicted in the opening movement of Ferde Grofé's *Grand Canyon Suite*. For 10 points each:

[10] Name this phenomenon that titles the introductory section of a tone poem that begins with a C-G-C trumpet call followed by crashing chords and timpani beats. It is paired with "Nightride" in a tone poem by another composer.

ANSWER: **sunrise**

[10] "Introduction, or Sunrise" is the first section of *Also sprach Zarathustra*, a tone poem by this German composer of *Till Eulenspiegel's Merry Pranks*, *Don Juan*, and *Ein Heldenleben*.

ANSWER: Richard **Strauss**

[10] This man composed the tone poem *Nightride and Sunrise*, but he is better known for *Valse triste*, seven symphonies, and the nationalistic *Finlandia*.

ANSWER: Jean **Sibelius** <KK>

9. He left the monarchy vacant on the condition that prince Juan Carlos would succeed him after his death, not realizing Juan Carlos would return democracy to his nation. For 10 points each:

[10] Name this dictator and military general who led a political party after the Primo de Riveras died. He repressed local languages and dialects before his 1975 death.

ANSWER: [Generalissimo] Francisco **Franco** y Bahamonde

[10] Franco's Falange party took power after this conflict, which began in 1936 and ended three years later when his Nationalistas captured Madrid.

ANSWER: **Spanish Civil War** [or **Guerra civil española**]

[10] Another leader of the Nationalistas, Emilio Mola, coined the term "fifth column" before dying in this manner, increasing Franco's prominence.

ANSWER: he died in an **airplane crash** <MJ>

10. This organization with thirteen regional branches uses open market operations to control the supply of money within the United States of America. For 10 points each:

[10] Name this organization which has reduced interest rates to near zero under its current chairman, Ben Bernanke. It acts like America's central banking system.

ANSWER: United States **Federal Reserve** System [prompt "The Fed"]

[10] This man partly apologized for his deregulatory policies during and after the 2008 financial crisis. He served as Chairman of the Federal Reserve before Bernanke.

ANSWER: Alan **Greenspan**

[10] This rule indicates that a central bank should try to increase the nominal interest rate by more than one percentage point for every percentage point increase in inflation.

ANSWER: **Taylor** rule <AD>

11. This empirical law relates the distance of a galaxy to its recessional velocity. For 10 points each:

[10] Name this law, characterized by a namesake constant with value 70 kilometers per second per megaparsec, which is a consequence of the expansion of the universe.

ANSWER: **Hubble's** law

[10] The recessional velocities of galaxies are measured by observing this phenomenon, in which a photon's wavelength increases. It results from the Doppler effect, and its magnitude is often symbolized by the letter z.

ANSWER: **redshift** [accept word forms; accept **cosmological redshift**; prompt on "Doppler shift"; do not accept "blueshift"]

[10] The acceleration of the expansion of the universe is believed to be caused by this entity, which constitutes about 75% of the total mass-energy of the universe. It is the lambda in the Lambda-CDM model.

ANSWER: **dark energy** [prompt on "dark"; prompt on "cosmological constant"; do not accept "dark matter"] <AS>

12. In his *Elegy XIX: To His Mistress Going to Bed*, he compares the act of fondling his mistress to the discovery and exploration of America. For 10 points each:

[10] Name this English poet, best known for *Holy Sonnets* like "Death Be Not Proud."

ANSWER: John **Donne**

[10] Donne, along with contemporaries like Richard Crashaw and Henry Vaughan, is considered part of this poetic movement, known for their highly intellectualized poetry that was marked by bold and often paradoxical metaphors.

ANSWER: the **metaphysical** poets

[10] Among the metaphysical poets was this author of "Easter Wings," a pattern poem in which the text takes the shape two wings, which he included in his collection *The Temple*.

ANSWER: George **Herbert** <CSM>

13. Richard Arkwright, the inventor of the spinning frame, and Thomas Newcomen, the inventor of the first practical water-powered steam engine, both hailed from this country. For 10 points each:

[10] Name this country, the first to undergo the Industrial Revolution.

ANSWER: **United Kingdom** of Great Britain [prompt **Great Britain**; prompt **Britain**; prompt **England**]

[10] Britain's Industrial Revolution was opposed by this movement led by textile artisans, who destroyed mechanized looms to protest their unemployment.

ANSWER: **Luddites**

[10] During the UK's Industrial Revolution many laborers supported this mass protest movement, which demanded universal male suffrage and a secret ballot among six key democratic reforms.

ANSWER: **Chartist** movement [or **Chartism**; prompt "Working Men's Associations"; prompt "People's Charter"] <MHH>

14. These substances may be described by BCS theory, in which they are said to contain Cooper pairs of electrons. For 10 points each:

[10] Name this substances which exhibit zero resistance. YBCO is a high-temperature example.

ANSWER: superconductors

[10] In superconductors below their transition temperatures, the Meissner effect is a description of the expulsion of these phenomena. A susceptibility of negative one is necessary to completely exclude them.

ANSWER: magnetic fields [accept B-fields; accept H-fields]

[10] The Meissner effect is described by the London equation, which relates the Laplacian of the B-field to the minus two power of this quantity, times the B-field. This quantity determines the scale over which external B-fields decay.

ANSWER: London penetration depth [prompt on “London”; prompt on “penetration depth”] <SL>

15. Geographical features of this state include the northern end of the Ozarks. For 10 points each:

[10] Name this state home to Christian-themed theatre resorts in Branson. Its namesake “bootheel” is south of Cape Girardeau.

ANSWER: Missouri

[10] Independence, Missouri, was the start of this trail which took many American settlers in covered wagons to a territory in the Pacific Northwest during the nineteenth century.

ANSWER: Oregon Trail

[10] Once the trail reached Oregon territory, it ended in this river valley often accessed by the Barlow Road. Its southern end is home to the city of Eugene.

ANSWER: Willamette river valley [wil-LA-mitt] <MJ>

16. Much like 1850s Brazil, Paraguay, and Uruguay, this empire was nominally a Triple Alliance, and inflicted the Noche Triste on an enemy which later defeated it. For 10 points each:

[10] Name this Mesoamerican empire whose last effective ruler, Montezuma II, died during *conquistador* Hernán Cortés’s invasion.

ANSWER: Aztec Empire [or Aztec Triple Alliance; or Nahuatl; or Ēxcān Tlahtōlōyān]

[10] The Aztec empire was centered around this floating city on Lake Texcoco. The Spanish later built Mexico City over its location.

ANSWER: Tenochtitlán [DO NOT accept “Teotihuacan;” BE CAREFUL]

[10] This still-existent people built a Mesoamerican civilization preceding the Aztecs around the city of Monte Albán in the first millennium AD. They were later replaced at Monte Albán by the Mixtecs.

ANSWER: Zapotecs [or Be’ena’a] <MJ>

17. Antidiuretic hormone increases the body’s retention of this substance. For 10 points each:

[10] Name this substance. The formation of a peptide bond leads to the creation of one molecule of this substance.

ANSWER: water [or H₂O; or dihydrogen monoxide; or DHMO; or hydrogen monoxide; or hydrogen hydroxide; or hydrol; or oxidane; or hydroxylic acid; mu-oxido dihydrogen; or obvious equivalents; prompt on “hydrogen oxide”; prompt on “dihydrogen oxide”]

[10] This vascular plant structure, consisting of tracheids and vessel elements, transmits evapotranspirational pull through the plant to pull water upwards.

ANSWER: xylem

[10] The water vascular system of echinoderms connects these structures via canals. The water vascular system conveys water to them from the madreporite (muh-DREP-uh-rite).

ANSWER: tube feet <MJ>

18. Answer some questions about modern Italian literature, for 10 points each.

[10] This Italian satirical playwright of *Archangels Don't Play Pinball* won the Nobel Prize in Literature in 1997. He is most famous for a play based on the killing of Giuseppe Pinelli, *Accidental Death of an Anarchist*.

ANSWER: Dario **Fo**

[10] This other contemporary Italian is well-known for a collection of stories narrated by Qfwfq, *Cosmicomics*, and a book in which The Reader starts several novels he never gets to finish, *If on a winter's night a traveler*.

ANSWER: Italo **Calvino**

[10] This modern Italian playwright described the Father and the Stepdaughter staging their life story in *Six Characters in Search of an Author*.

ANSWER: Luigi **Pirandello** <JL>

19. This man is the son of Ygraine and Uther Pendragon. For 10 points each:

[10] Name this mythical English king who led the knights of Camelot after pulling a sword from a stone which people mistakenly conflate with Excalibur.

ANSWER: King **Arthur**

[10] This illegitimate son of Arthur and Morgause was fated to kill his father on the battlefield of Camlann.

ANSWER: **Mordred**

[10] A band containing Arthur and Sir Kay helps Culhwch win over Olwen in this collection of Welsh myth compiled by Lady Charlotte Guest. Arthur appears outside the four main stories, or “branches,” featuring Pryderi.

ANSWER: The **Mabinogion** <MJ>

20. One philosopher from this country, who wrote that a life-force called the *élan vital* drove evolution, was Henri Bergson. For 10 points each:

[10] Name this European country where Jean-Paul Sartre promoted his existentialism after attending the École Normale Supérieure.

ANSWER: **France** [or French **Third Republic**, or **Vichy France**, or French **Fourth Republic**]

[10] This bald French thinker noted that deviant categories such as insanity are socially defined in works such as *The Birth of the Clinic*. In *Discipline and Punish*, this theorist of discourse compared society to the Panopticon prison.

ANSWER: Michel **Foucault** [foo-KOH]

[10] Another modern Frenchman, Jacques Derrida, developed this way of reading texts. It seeks to expose the hierarchies or binary opposites in a text and reveals ways in which that text contradicts itself.

ANSWER: **deconstruction** <MJ>

21. W. C. Handy was a pioneer of this musical genre, and melodies in this genre often use the flattened third and seventh scale degrees. For 10 points each:

[10] Name this genre of African-American folk music performed by Bessie Smith and Ma Rainey and historically linked with the Mississippi Delta, whose lyrics often deal with the singer's personal woes.

ANSWER: the **blues**

[10] The most common format of a blues song is based on a standard chord progression that takes this many bars. It is also the number of distinct pitch classes in the chromatic scale.

ANSWER: **twelve**

[10] This legendary Delta blues singer was reputed to have gotten his guitar skills from a deal with the devil. His best-known songs include “Cross Road Blues” and “Love in Vain.”

ANSWER: Robert **Johnson** <KK>