

WHAQ (Washington High Academic Questionfest) II: Miami Connection

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Written by current and former members of the teams at Washington and Miami Valley

Packet 4

Tossups

1. **Red-colored examples of these systems that have lasted for over 150 years contain nanoparticles that were accidentally created from preparing gold for microscope slides. The zeta potential is a key indicator of the stability of these systems, as it describes whether these substances will undergo flocculation. Light passing through these substances can appear (*) blue as this system exhibits Willis-Tyndall scattering. This type of system is the intermediate between solutions and suspensions. For 10 points, name this type of mixture where one substance is dispersed evenly throughout another.**

ANSWER: colloids <David Dennis>/<ed. AR>

2. **In this novel, bottles of kummel lead Miss van Campen to suspect the protagonist's jaundice was caused by his alcoholism. This novel's protagonist plays billiards with Count Greffi and is introduced to his lover by the surgeon Rinaldi. This novel's protagonist flees to (*) Switzerland after the Battle of Caporetto, and falls in love with a British nurse named Catherine Barkley. For 10 points, name this World War I novel about the soldier Frederick Henry, written by Ernest Hemingway.**

ANSWER: A Farewell to Arms <Carrie Derner>/<ed. ME>

3. **In Book 1 of a work by this thinker, probabilistic thinking is compared to reasoning and argumentation. This author's namesake proviso limits how much property one can privatize. Parents should be seen as "absolute governors" by their children according to this thinker's *Some Thoughts Concerning Education*. This philosopher refuted Robert (*) Filmer's *Patriarcha* in one work and described the mind as a "tabula rasa" ["ta-boo-lah rah-sah"] in another. For 10 points, name this author of *Two Treatises of Government* and *An Essay Concerning Human Understanding*.**

ANSWER: John Locke <Sophia Johnson>/<ed. HB>

4. **In 2014, protests concerning the overuse of a landfill took place in this nation's town of Naameh, and its highest point is Qurnat as Sawda. An International Festival is held in its city of Baalbek, which is in its Beqaa Valley. Though not Libya, this country's second-largest city is Tripoli. The militant group (*) Hezbollah is headquartered in this nation, in which cities like Tyre were once inhabited by Phoenicians, and it disputes parts of the Golan Heights with its southern neighbor, Israel. For 10 points, identify this Middle Eastern nation whose flag depicts a cedar and that has a capital at Beirut.**

ANSWER: Lebanon [or Lebanese Republic; or Republic of Lebanon; or Al-Jumhuriyah al-Lubaniyah] <John John Groger>/<ed. DD>

5. **This man's father was compelled to abdicate in favor of him after a defeat to the king of Larsa. By forming alliances with the city-states Nippur and Lagash, this son of Sin-Muballit took the cities of Uruk and Isin from a former ally who had abandoned him in the fight against the Elamites. A seven-foot-tall stele discovered in the city of (*) Susa contains a famous writing of this man, which is based on the principle known as *Lex Talionis* [“tah-lee-oh-niss”], and states that “If a man put out the eye of another man, his eye shall be put out.”** For 10 points, name this Babylonian King who wrote an early law code.

ANSWER: Hammurabi [or Hammurapi] <David Dennis>/<ed. JO>

6. **The A-side of an album by this man consists of the song "Shhh/Peaceful." That Teo Macero-produced album marked the beginning of this man's "electric" period. In addition to *In a Silent Way*, this man also collaborated with guitarist John McLaughlin on four other albums during his later (*) fusion period. This man completed an album of arrangements from a Gershwin opera with Gil Evans, and his second quintet included Wayne Shorter and Herbie Hancock. Joaquin Rodrigo inspired this performer's *Sketches of Spain*. For 10 points, name this jazz trumpeter, who included the tracks "So What" and "Freddie Freeloader" on his album *Kind of Blue*.**

ANSWER: Miles Davis <Carrie Derner>/<ed. DD>

7. **A Nestorian named Rabban Bar Sauma tried to ally with France while serving as the ambassador to Europe of a dynasty of this empire. At Bach Tang, this empire lost to the Vietnamese, and they waged a costly war to conquer Champa. A dynasty of this empire, which took power after the Battle of Yamen, used a paper currency called the chao. Zhu Yuanzhang overthrew that dynasty of this empire and proclaimed himself the (*) Hongwu Emperor after the Red Turban Rebellion. The invasion of Japan by a leader of this empire, whose court was visited by Marco Polo, was repulsed with the help of "kamikaze" winds. For 10 points, name this empire ruled by Genghis and Kublai Khan.**

ANSWER: Mongols [or Mongol Empire] <John John Groger>/<ed. JO>

8. **These objects undergo Debye [“dih-bye”] cooling after crystallization. One of these objects lies in the center of the Helix Nebula. The structure of these objects is sustained by the pressure of degenerate electrons and these objects cannot obtain energy from thermonuclear reactions. After they become red giants, these objects with mass less than the (*) Chandrasekhar [“Chan-dra-sek-har”] limit shed their envelopes into planetary nebulae. They are shown in the lower left corner of the HR-diagram, and can pack the mass of the Sun into the volume of the Earth. For 10 points, name these fossil stars, the most common stellar evolutionary end-point.**

ANSWER: White dwarf stars <David Dennis>/<ed. HB>

9. **One member of this family is the 107-year-old Aunt Muriel, who refuses to come home for Christmas after being pranked. A character with this last name is repeatedly called “Weatherby” by his boss, and another of these characters’ greatest ambition is to find out how airplanes stay up. This family has a pet rat named (*) Scabbers and a flying car that is destroyed by a tree. This family is characterized as having “red hair, freckles, and more children than they can afford.”** For 10 points, name this family from the Harry Potter series, that includes Harry’s best friend Ron and the twins Fred and George.

ANSWER: Weasley family [or Ron Weasley; or Arthur Weasley; or Percy Weasley; or Fred Weasley; or George Weasley] <Carrie Derner>/<ed. SP>/<ed. JO>

10. **In this author’s last play, a character claims to have killed all her lovers after posing for the sculpture “Resurrection.” In that play by this author, Irena dies in an avalanche with Arnold Rubek. In another play by this author of *When We Dead Awaken*, a wife is haunted by her husband who passed on syphilis to his son Oswald. This author of (*) *Ghosts* wrote a play in which the title character encourages Lovborg to kill himself after burning his manuscript, and another that sees Nora Helmer end her marriage to Torvald.** For 10 points, name this Norwegian playwright of *Hedda Gabler* and *A Doll’s House*.

ANSWER: Henrik Ibsen [or Henrik Johan Ibsen] <Carrie Derner>/<ed. ME>

11. **Jan [“Yan”] Hulsker disputed which painting was this artist’s last. Theories about a painting by this artist suggest that it is could be a unique last supper or a rendition of a scene from Maupassant’s *Bel Ami* [“ah-me”]. A painting from this artist’s *Olive Trees* series is a (*) complementary piece to this artist’s most famous painting. “Japonisme” led to this artist’s *The Courtesan*, and in another of this artist’s paintings, a man holds a cup in expectation of the title meal underneath a single oil lamp.** For 10 points, name this artist of *The Potato Eaters* and *Starry Night*.

ANSWER: Vincent van Gogh <David Dennis>/<ed. CW>

12. **This man lost an election for Speaker of the House to the man who combated the “disappearing quorum,” Thomas Reed. The Wilson-Gorman Tariff replaced a fifty percent duty on imports that he framed as chairman of the Ways and Means Committee. He twice defeated the founder of *The Commoner*, and fellow Ohio native Mark (*) Hanna aided his “front porch” campaign. At the Buffalo World’s Fair, a handkerchief hid a gun that Leon Czolgosz used to kill this man.** For 10 points, name this president who defeated William Jennings Bryan, the predecessor of Theodore Roosevelt.

ANSWER: William McKinley Jr. <John John Groger>/<ed. JO>

13. **Inducing this effect via a persistent current in BEC's allows the measurement of the background flow velocity of phonon modes. Walter Kundig used the Mossbauer effect with an ultracentrifuge rotor to verify the transverse form of this quantity that formed the basis of the Ives-Stilwell experiment.** (*) Echocardiograms use this phenomenon to measure the speed of blood flow, and Hubble used this phenomenon to prove the expansion of the universe. For 10 points, name this effect in which the pitch of a sound drops as the source moves away from the observer.

ANSWER: Doppler Effect <David Dennis>/<ed. HB>

14. **This figure acquired his slanted eyes when he attempted to use sticks to stay up all night. Despite these efforts, this figure still woke up too late to receive the name he wanted on name-giving day. This figure's eye became the star Arcturus [*"Arc-tur-us"*] after he lost that eye while juggling. This deity has the power to survive fatal injuries by hiding all of his vital organs in his (*) tail. This figure was temporarily the moon, but he lost that position after he used it to spy on the rest of the world. This deity created humanity by kicking a ball of mud.** For 10 points, name this Native American canine trickster deity.

ANSWER: Coyote <William Groger>/<ed. JO>

15. **In one novel by this author, the governess Dante will not allow the protagonist to marry Eileen Vance, due to her Protestantism. In another novel by this author, a character describes her love affair with Hugh Boylan in a stream-of-consciousness soliloquy ending "yes I said yes I will Yes." In that novel by this author, Leopold (*) Bloom meets Stephen Daedalus while wandering Dublin on June 16th, 1904.** For 10 points, name this Irish author of *A Portrait of the Artist as a Young Man* and *Ulysses*.

ANSWER: James Joyce [or James Augustine Aloysius Joyce] <Tyler Benedict>/<ed. ME>/<ed. JO>

16. **During foliar senescence [*"sin-essence"*], this substance is broken down in the PAO pathway, resulting in a group of colorless tetrapyrroles [*"tet-ra-py-roles"*]. Two of these molecules collect energy through resonance energy transfer from auxiliary molecules in antenna complexes. Common arrangements of these molecules are named (*) P680 and P700. This molecule, which consists of a central magnesium atom surrounded by a porphyrin ring, is found in the thylakoid membrane along with pigments such as carotenoids [*"car-o-ten-oids"*].** For 10 points, name this green pigment responsible for harnessing light energy for photosynthesis.

ANSWER: chlorophyll [prompt on plant pigments] <David Dennis>/<ed. AR>

17. **In an Act II duet, the female lead in this opera tells her father of her love, who she believes is named Gualtier Malde. Earlier in this opera, she had sung of the "sweetness" of that name in the aria "Caro nome" [*"no-may"*]. A curse placed on the title character is fulfilled when Gilda sacrifices herself for the sake of her love to the assassin (*) Sparafucile [*"Spar-ah-fu-sil-ay"*]. The title character of this opera realizes his daughter is dead he hears a song about the "flightiness" of women off in the distance. "La Donna e Mobile" is sung by the Duke of Mantua in, for 10 points, what opera about a hunchbacked jester by Giuseppe Verdi?**

ANSWER: Rigoletto <David Dennis>

18. After being exchanged for Rudolf Abel, the “Bridge of Spies” allowed for the release of Francis Gary Powers into this city, which he entered [*“emphasize”*] *from* its southeastern neighbor. Yevgeny Khaldei took a picture of two soldiers raising a flag over the parliament building in this city. The first torch relay occurred during an Olympic Games hosted by this city. This city, whose southeastern neighbor is (*) Potsdam, hosted the 1936 Summer Olympics, where Jesse Owens won four gold medals. For 10 points, name this city which houses the Reichstag building, the current capital of Germany.

ANSWER: Berlin [or West Berlin] <David Dennis>/<ed. JO>

19. A woman in this story imagines her husband calling her a “Coney Island chorus girl,” before wondering what she can do with a dollar and eighty-seven cents. Prized possessions in this short story would make the Queen of Sheba and King Solomon envious. A trip to Madame (*) Sofronie’s in this story renders the purchase of hair combs useless. For 10 points, name this ironic short story about Jim and Della exchanging Christmas presents like wise men, written by O. Henry.

ANSWER: “The Gift of the Magi” <Carrie Derner>/<ed. ME>

20. One of these texts has "white" and "black" recensions. The word Nāstika [*“Nas-tee-kah”*] often refers to groups that reject this set of texts. Another one includes collections of melodies and chants, and is named "Sama." These texts were originally transmitted together orally, but they were split into four by the Sage (*) Vyasa. Another of these texts contains hymns to invoke deities such as Agni. Many of their ideas are explained further in the Upanishads. For 10 points, name this set of Sanskrit texts, whose oldest entry is known as the "Rig" one.

ANSWER: Vedas [or Rig Veda] <Sophia Johnson>/<ed. AR>

Bonuses

1. This receiver's catch came with his team down 8 points and 2:28 to play. For 10 points each:
[10] Name this wide receiver who made a diving catch, grabbing it just a few inches from the ground, with just over 2 minutes left in Super Bowl 51.

ANSWER: Julian **Edelman**

[10] Julian Edelman is a wide receiver for this Boston-based team, whose quarterback Tom Brady was accused of partially deflating footballs in the “Deflategate” scandal.

ANSWER: New England **Patriots** [or **New England** Patriots]

[10] The Patriots came back from this score, which was their largest deficit, to win the Super Bowl. This score has been the subject of many Falcons-related memes.

ANSWER: **28 to 3** <David Dennis>/<ed. SP>/<ed. JO>

2. This story was based on its author’s experience with the sinking of the Commodore. For 10 points each.

[10] Name this short story, in which Billie the oiler dies trying to escape the title shipwreck.

ANSWER: “The **Open Boat**”

[10] The author of “The Open Boat” also wrote this novel, where Henry Fleming flees from battle before getting hit on the head with a rifle, and claims to have earned the title wound.

ANSWER *The* **Red Badge of Courage**

[10] This American author wrote “The Open Boat” and *The Red Badge of Courage*

ANSWER: Stephen **Crane** <Carrie Derner>/<ed. ME>

3. An indicator for several types of this disease is Gower's sign, in which the patient struggles to stand up from a squatting position. For 10 points each:

[10] Name this progressive disorder that results in skeletal muscle wasting. The Duchenne variety of this disease is the most common.

ANSWER: **muscular dystrophy**

[10] Like hemophilia and color-blindness, muscular dystrophy is a recessive disorder linked to this sex chromosome. Males have only one copy of this chromosome.

ANSWER: **X** Chromosome

[10] High levels of the kinase of this nitrogenous acid are used to diagnose muscular dystrophy. This molecule can store phosphates from ATP for use in skeletal muscle, and its monohydrate form is a popular bodybuilding supplement.

ANSWER: **creatine** <David Dennis>/<ed. AR>

4. As a result of this scandal, Orville Babcock, the president's private secretary, was able to purchase land in Florida using money he was gifted by John McDonald. For 10 points each: [10] Name this scandal, where distillers of the namesake variety of alcohol bribed Treasury Department officials to avoid paying taxes.

ANSWER: **Whiskey Ring** scandal

[10] The Whiskey Ring and the Crédit Mobilier scandal took place during the presidency of this former Civil War General. This 18th president oversaw much of Reconstruction.

ANSWER: Ulysses S. **Grant** [or Ulysses Simpson **Grant**; or Hiram Ulysses **Grant**]

[10] Robert Ingersoll defended Thomas Brady and Stephen Dorsey during this Grant presidency scandal, which involved the awarding of namesake contracts in exchange for bribes.

ANSWER: **Star Route** Scandal <Cole Phinney>/<ed. JO>

5. Many members of this denomination have used taqiyya [*“tah-kee-yah”*] to avoid persecution, and some members can perform temporary marriages. For 10 points each:

[10] Name this second-largest branch of Islam, after the Sunnis.

ANSWER: **Shia** [or **Shi'ism**; or **Shi'ite**]

[10] Shia Islam claims that Muhammad declared this man his successor at Ghadir Khumm. This cousin of Muhammad was also the fourth "rightly guided" Caliph.

ANSWER: **Ali** ibn Abi Talib

[10] Around 85% of Shias belong to this sect, which is named for the number of imams they venerate. The last of those imams is the "Hidden Imam," who will return as the Mahdi.

ANSWER: **Twelvers** [or **Athnā'ashariyyah**; or **Imamiyyah**] <Sophia Johnson>/<ed. AR>

6. Mahler described this instrument as needing to be “brief and mighty, but dull in resonance and with a non-metallic character (like the fall of an axe).” For 10 points each:

[10] Give the name of this instrument added to the final movement of Mahler's 6th Symphony. It was written to be played three times, but was reduced to playing only twice.

ANSWER: **Hammer** [or **Box and Hammer**]

[10] The hammered version of this instrument is a large trapezoidal box with bass and treble bridges holding up several double courses of strings. A larger version of this instrument is the cimbalom.

ANSWER: Hammered **Dulcimer**

[10] This composer's *Second Suite in F for Military Band's* third movement, "Song of the Blacksmith," calls for hammers hitting an anvil. This composer also wrote *The Planets*.

ANSWER: Gustav **Holst** [or Gustav Theodore **Holst**; or Gustavus Theodore von **Holst**] <David Dennis>

7. Moore's law says that the number of these elements on an integrated circuit doubles approximately every two years. For 10 points each:

[10] Name this circuit device that replaced the vacuum tube. An example of this circuit device is the MOSFET.

ANSWER: **transistors**

[10] The S in MOSFET represents this kind of material, like silicon or germanium, that have conductivities between conductors and insulators.

ANSWER: **semiconductors**

[10] This term describes the difference between the valence and conduction bands for a material. For a material to be a semiconductor, it typically has value for this term lower than 4eV.

ANSWER: **band gap** <David Dennis>/<ed. HB>

8. An economy meets this condition in exogenous growth models when the variables describing it reach a balanced growth. For 10 points each:

[10] This concept, named for a Nobel prize winning mathematician, refers to a situation where participants in a non-cooperative game lack incentive to change their strategy.

ANSWER: **Nash equilibrium**

[10] In this concept, two people have the choice between confessing and not confessing. In Nash Equilibrium, they both choose to confess.

ANSWER: **Prisoner's dilemma**

[10] These situations are governed by Nash Equilibrium in their namesake "theory." Examples of these situations include the stag hunt and the prisoner's dilemma.

ANSWER: **Games** [or **game** theory] <Sophia Johnson>/<ed. HB>/<ed. JO>

9. Chinua Achebe called this work's author "a thoroughgoing racist" and said that its setting of Africa was "a metaphysical battlefield devoid of all recognizable humanity." For 10 points each:

[10] Name this novella, critiqued by Achebe in his lecture "An Image of Africa" for its depiction of natives along the Congo river.

ANSWER: **Heart of Darkness**

[10] *Heart of Darkness* was written by this Polish-British author of *The Secret Agent* and *Nostramo*.

ANSWER: Joseph **Conrad** [or Józef Teodor Konrad **Korzeniowski**]

[10] Marlow discovers that Kurtz has handwritten this exact four-word phrase on his report about suppressing the culture of the natives, a sign that Kurtz has been changed by his environment.

ANSWER: "**Exterminate all the brutes!**" <Tyler Benedict>/<ed. ME>

10. During the early stages of this 19th-century war, the Alexander Ypsilantis-led Sacred Band was routed at the Battle of Dragashani. For 10 points each:

[10] Name this war, that ended after British, French, and Russian intervention at the Battle of Navarino Bay. Lord Byron died fighting in this war.

ANSWER: **Greek War of Independence** [or the **Greek Revolution**; or **Elliniki Epanastasi**; or **Yunan isyani**]

[10] Ibrahim Pasha, a military leader from this modern-day country, was sent to quell the Greek Revolution. Ibrahim was sent from this country by his father, the khedive Muhammad Ali.

ANSWER: **Egypt** [or the Arab Republic of **Egypt**; or **Misir**; or Jumhuriyat **Misir** al-Arabiyyah]

[10] The Greek War of Independence was fought against this "sick man of Europe." This empire was dissolved after World War I and became modern Turkey.

ANSWER: **Ottoman** Empire <Cole Phinney>/<ed. JO>

11. This man was captured at Cajamarca [*"Kah-hah-mar-kah"*] after he threw a Bible, presented to him by Friar Vicente de Valverde, to the ground. For 10 points each:

[10] Name this Sapa, who was held for a ransom of a room filled once with gold and twice-over with silver by Spanish conquistadors.

ANSWER: **Atahualpa** [or **Atabalipa**; or **Atahaulpa**; or **Ataw Wallpa**]

[10] Atahualpa was the last sovereign ruler of this pre-colonial empire in South America, which was conquered by Francisco Pizarro.

ANSWER: **Inca** Empire [or **Inka** Empire]

[10] Before the arrival of Pizarro's conquistadors, Atahualpa fought this man, his step-brother, in a civil war. This man was captured by Atahualpa at the Battle of Quipaipan.

ANSWER: **Huáscar** [or Inti Cusi Huallpa **Huascar**] <Cole Phinney>/<ed. JO>

12. Her namesake "memo" as Deputy AG stated that corporations may no longer receive partial credit for their cooperation in investigations. For 10 points each:

[10] Name this former acting Attorney General, who was fired by Trump after refusing to enforce Executive Order 13769, the so-called "Travel Ban."

ANSWER: Sally **Yates**

[10] Another person fired from work in the Trump Administration was this founder of SkyBridge Capital. This person was removed as White House Communications Director after only 10 days in the position.

ANSWER: Anthony **Scaramucci** [prompt on "the **Mooch**"]

[10] Scaramucci took over the role as Communications Director from Sean Spicer. Spicer had been acting in the role after the departure of this founder of Crossroads Media, who served for three months.

ANSWER: Mike **Dubke** <David Dennis>

13. There are many unsolved questions in mathematics. Identify some, for 10 points each:

[10] This yet unproven statement hypothesizes that there are infinitely many pairs of these prime numbers that differ by two.

ANSWER: **Twin prime** conjecture

[10] This millennium problem explores the distribution of zeros in its namesake zeta function.

This hypothesis asserts that all non-trivial zeros lie on a critical line with a real part of one-half.

ANSWER: **Riemann** Hypothesis

[10] Grigori Perelman turned down the Millennium Prize and the Fields Medal for his solution to this conjecture that states that the three-sphere is the only type of bounded three-dimensional space possible that contains no holes.

ANSWER: **Poincare** conjecture <David Dennis>/<ed. HB>

14. Mr. and Mrs. Martin debate whether they are husband and wife before the arrival of this character. For 10 points each.

[10] Name this character, who arrives unexpectedly at the Smiths' dinner party, despite there being no emergency.

ANSWER: the **Fire Chief**

[10] The Fire Chief appears in this absurdist play by Eugene Ionesco, which ends with the Martin family replacing the Smith family.

ANSWER: *The **Bald Soprano*** [or *The **Bald Prima Donna***; or *La **Cantatrice Chauve***]

[10] This country is home to many absurdist works, such as Albert Camus' *The Myth of Sisyphus*.

ANSWER: **France** [or **French** Republic; or Republique **Francaise**] <William Groger>/<ed. ME>/<ed. JO>

15. This collection gained its title in 1795 in a translation by William Owen Pughe, although a more famous translator of this work is Lady Charlotte Guest. For 10 points each:

[10] Name this mythological collection that includes "Four Branches." The character Pryderi appears in all four branches, and he meets his death in single combat after invading Gwynedd.

ANSWER: *The **Mabinogion*** [or *The **Four Branches of the Mabinogi***]

[10] Lady Guest's *Mabinogion* ["*Mab-in-oh-gee-on*"] includes some of the earliest stories about this legendary British king. In the tale "Culhwch ["*Cull-witch*"] and Olwen," this man's court is called Celliwig rather than Camelot.

ANSWER: King **Arthur** Pendragon

[10] The *Mabinogion* collects stories from this constituent country of the United Kingdom.

Owain Glendower and Cadwalader, historical rulers of this region, also attained legendary status.

ANSWER: **Wales** [or **Cymru**] <Tyler Benedict>/<ed. JO>

16. Answer these questions about countries located around the Gulf of Guinea. For 10 points each:

[10] The uranium deposits in the Oklo region of this country created the only known natural nuclear reactor. This country was the site of Albert Schweitzer's hospital in Lambarene, southeast of Libreville.

ANSWER: **Gabon** [or **Gabonese** Republic; or Republique **Gabonaise**]

[10] The Igbo are an ethnic group, which attempted to secede and form the nation of Biafra in the southeastern portion of this most populous African country.

ANSWER: **Nigeria** [or Federal Republic of **Nigeria**]

[10] Between Gabon and Nigeria is this former German colony, whose capital is Yaounde [*“Ya-oon-day”*].

ANSWER: **Cameroon** [or **Kameroun**; or **Kamerun**; or Republic of **Cameroon**; or Republique de **Cameroun**] <David Dennis>

17. This work's title character cross-dresses in the Sultan's seraglio, fights in Catherine the Great's army, and sees his dog and his tutor Pedrillo eaten by sailors. For 10 points each.

[10] Name this mock epic, written in *ottava rima*, about a young man seduced by numerous women.

ANSWER: **Don Juan** [*“Don JOO-wan”*]

[10] *Don Juan* was written by this British poet of “So We'll Go No More A-Roving” and *Childe Harold's Pilgrimage*.

ANSWER: Lord **Byron** [or George **Gordon**, 6th Baron Byron]

[10] Byron also wrote this three-stanza poem about “a love whose heart is innocent” and noted “All that's best of dark and bright/Meet in her aspect and her eyes.”

ANSWER: “**She Walks in Beauty**” <Tyler Benedict>/<ed. Mike Etzkorn>

18. Archaeologists in 2017 unearthed a 6-foot-tall statue believed to have once stood guard over an ancient hospital at this site. For 10 points each:

[10] Name this complex near the Siem Reap River, originally constructed as a Hindu temple on an artificial island surrounded by a moat. Its reliefs depict the army of Suryavarman II.

ANSWER: **Angkor Wat**

[10] Angkor Wat is found in the former capital of this ancient empire, which was ruled by Suryavarman II. This empire partly named Pol Pot's communist group.

ANSWER: **Khmer** Empire [or **Khmer** Rouge]

[10] Pol Pot's Khmer Rouge ruled this modern country until they were deposed by the Vietnamese. Angkor Wat is located in this modern-day country.

ANSWER: **Cambodia** [or the Kingdom of **Cambodia**; or **Kampuchea**] <David Dennis>/<ed. JO>

19. The Proton Sponge is an example of the "super" variety of these substances. For 10 points each:

[10] Name these compounds. According to Arrhenius, they increase the concentration of hydroxide ions when dissolved in water.

ANSWER: **bases** [or super**bases**]

[10] The strong base LDA, or lithium diisopropyl amide, has an atom of this element in its center. This element is also found in amines, where it forms three bonds and a lone pair.

ANSWER: **nitrogen** [or **N**]

[10] LDA is classified as one of these reagents. These reagents are named for the fact that they involve interactions between carbon atoms and a metal such as lithium or palladium.

ANSWER: **organometallic** reagents [or **organometallic** compounds; prompt on **organolithium** reagents/compounds] <David Dennis>/<ed. AR>

20. A man resists the advances of a pig dressed as a nun in the bottom right corner of one panel in this work. For 10 points each:

[10] Name this triptych [*"trip-tick"*] which depicts, among other things, Eve being presented to Adam, hundreds of nude people engaging in fantastical behaviors, and Hell.

ANSWER: *The **Garden of Earthly Delights***

[10] *The Garden of Earthly Delights* is by this Netherlandish artist. His other triptychs include *The Last Judgement* and *The Haywain*.

ANSWER: Hieronymus **Bosch**

[10] The National Gallery currently holds a Bosch panel, which includes a representation of this entity. In that panel, this entity holds an arrow on the left while a figure in green reaches for a pot of gold in a chest.

ANSWER: **Death** [or ***Death and the Miser***] <Jonathan Amlong>/<ed. CW>