

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 8

Tossups

1. **One character in this play believes it is impolite to listen to bad piano playing, and another character eats cucumber sandwiches meant for his aunt. One character in this play has his true identity revealed by an inscription on a cigarette case before being accused of being a (*) "Bunburyist"** That character finds out he was left in a handbag at Victoria Station as an infant in this play, which sees Cecily Cardew and Gwendolyn Fairfax become engaged to the same nonexistent man. For 10 points, name this play about Jack Worthing and Algernon Moncrieff, written by Oscar Wilde.

ANSWER: *The Importance of Being Earnest* <Carrie Derner>/<ed. ME>

2. **Though not Croatia, the first leader of this body led Operation Whirlwind, which deposed men including Pál Maléter. One nation refused to establish diplomatic relations with a member of this body, as stated in the Hallstein Doctrine. Gustáv Husák took power after an event that prompted Albania to leave this alliance. In (*) 1956, Imre Nagy attempted to leave this alliance, leading to its removal of the Hungarian government. This alliance suppressed Alexander Dubček's [*"Doob-check's"*] reforms by invading Czechoslovakia in 1968. For 10 points, name this alliance of communist nations that opposed NATO.**

ANSWER: Warsaw Pact [or Treaty of Friendship, Co-operation, and Mutual Assistance] <John John Groger>/<ed. JO>

3. **Cognitivism and non-cognitivism are views in this field's "meta" variety. Some naturalistic theories in this field are called fallacious in a 1903 work in this field. Alasdair MacIntyre's book *After Virtue* helped revived one theory in this field in which G.E. wrote a *Principia*. A Panopticon is discussed by Jeremy (*) Bentham who created this field's utilitarian branch. The terms substance, attribute, and mode are redefined by Baruch Spinoza in a work named for this study. For 10 points, name this philosophical subfield, that says what is right and wrong.**

ANSWER: Ethics [prompt on morals until "meta" is read] <Sophia Johnson>

4. **Phenomenons driven by this force can be estimated with the Boussinesq [*"Boo-sin-esk"*] approximation. Gauss's formula for closed surface integrals can be used to calculate this force, as the product of the divergence of the Cauchy [*"Co-shee"*] stress tensor and "d v." The ratio of this force to viscosity is given by the Grashof (*) number. For a given object, this force is equal to total weight of all the fluid displaced by that object, according to Archimedes' Principle. For 10 points, name this upward-pointing force that keeps objects afloat.**

ANSWER: Buoyancy <David Dennis>/<ed. HB>

5. A painting by this artist depicts two trees on its left and mobs of putti ["poo-tee"] flocking to the title object. Another painting by this artist of *The Fountain of Indolence* was inspired by a Thomas Clarkson book retelling the events aboard the *Zong* and is housed in Boston's Museum of Fine Arts. That painting by this artist shows floating bodies being left behind by a (*) ship sailing in a storm. In his most famous work, this artist portrayed a hare running alongside a train. For 10 points, name this artist of *Slave Ship* and *Rain, Steam and Speed*.

ANSWER: Joseph Turner [or J.M.W. Turner, or Joseph Mallord William Turner] <Jonathan Amlong>/<ed. CW>

6. Kilij Arslan was defeated by Bohemond of Taranto at this war's Battle of Dorylaeum. This war had leaders including Raymond IV and Godfrey of Bouillon ["Boo-yon"]. This conflict followed a campaign led by Peter the Hermit, and states like Edessa and Antioch were established in the aftermath of this conflict. This conflict was sparked by a request for aid from (*) Alexios Komnenos ["Al-ex-ee-os Kom-nen-os"], and it was declared during a speech by Pope Urban II stating "God wills it" at the Council of Clermont. For 10 points, name this original attempt by Christians to reclaim the Holy Land of Jerusalem from the Muslims.

ANSWER: First Crusade [prompt on Crusade, German Crusade or People's Crusade, do NOT accept or prompt on any other-numbered crusade] <John John Groger>/<ed. JO>

7. The speaker of one of this man's poems sees "a bronze memorial of a famous general," and "[wants] to smash the whole thing into a pile of junk." This author of "Ready to Kill" wrote about Potato Face Blind Man in a story collection he wrote for his children, called *Rootabaga Stories*. The title entity of a poem by this author asks to "shovel them under and let me work" in reference to bodies "at (*) Austerlitz and Waterloo." Another poem by this author addresses a "City of Big Shoulders" and "Hog Butcher for the World." For 10 points, name this American poet of "Grass" and "Chicago."

ANSWER: Carl Sandburg <Carrie Derner>/<ed. ME>

8. In 2016, this artist partnered with Majestic to design an alternate hat used by the Chicago White Sox. This rapper claimed that his "daughter look just like Sia, you can't see her" in one song where he was featured. This artist stated that he "likes his women real tall, the type that can really play ball" in another song. That song, "Mixtape," was off his 2016 album (*) *Coloring Book*. In 2017, this man won the Grammy for the Best New Artist, becoming the first black male hip hop artist to do so. For 10 points, name this "Cocky khaki jacket jacker," who was featured on the Kanye West song "Ultralight Beam," and has the epithet "The Rapper."

ANSWER: Chance The Rapper [or just Chance after "The Rapper" is read; otherwise prompt on Chance; accept Chancellor Jonathan Bennett] <Jonathan Amlong>/<ed. SP>/<ed. JO>

9. **Scientists practice a "silent" form of this event in which everyone attending it is encouraged to refrain from speaking. This life event of Krishna is celebrated as the holiday Janmashtami. Buddha experienced this event ten lunar months after (*) Queen Maya envisioned an elephant piercing her right side. One figure who experienced this event was visited by three Magi bearing gifts the same night. For 10 points, name this event, whose "virgin" form was experienced by Jesus and is celebrated on Christmas.**

ANSWER: **birth** [or equivalents, such as **nativity**, **being born**; or **birth of Christ**; or **birth of Buddha**; or **birth of Krishna**] <Sophia Johnson>/<ed. AR>

10. **Beta-hexosaminidase A [*"Bay-ta hex-o-sam-in-i-daze A"*] catalyzes the breakdown of one type of these molecules. Other types of these molecules, the sphingo- type, include phosphocholine [*"phos-pho-ko-line"*] and sphingomyelin [*"sphin-go-my-uh-lin"*]. In Tay-Sachs disease, examples of these molecules called gangliosides build up to a toxic level. One type of these macromolecules has a hydrophobic (*) head and hydrophilic tail and can assemble into bilayers; those are the phospho- variety. This group of molecules also includes cholesterol and triglycerides. For 10 points, name these macromolecules that can also be called fats.**

ANSWER: **lipids** [or **gangliosides**; or **sphingolipids**; or **phospholipids**; prompt on **fats** before "fats" is read] <David Dennis>/<ed. AR>

11. **During World War I, this nation's city of Iasi temporarily replaced its current capital, which is the site of the Telephone Palace and the Arcul de Triumf. It contains the western part of the historical region of Bessarabia, which is separated from an eastern neighbor by the Pruth River. This nation contains the cities of Constanta and (*) Timisoara, and its city of Cluj-Napoca is located in the Carpathian Mountains. This country includes Wallachia and Moldavia, and its Black Sea coast contains the mouth of the Danube. For 10 points, name this Eastern European country, with a capital at Bucharest.**

ANSWER: **Romania** [or **Rumania**] <John John Groger>/<ed. DD>

12. **This god had cult centers at Nekhen and Edfu. This god's children Qebhsenuf [*"Ke-beh-sen-eff"*], Imsety, Hapi, and Duamutef [*"Doo-ah-moo-teff"*] represent the four cardinal directions and are depicted on canopic jars. This god's wife can take the form of Sekhmet [*"SEK-met"*], but is normally the cow goddess (*) Hathor. The wadjet is this god's left eye. This god painted his wooden boat to look like stone to defeat his rival Set in a boat race. For 10 points, name this falcon-headed sky god and leader of the Egyptian pantheon.**

ANSWER: **Horus** <William Groger>/<ed. JO>

13. **The first prime minister of this country came to power following the Hopetoun Blunder. A leader of this country gave a speech calling the middle class "the forgotten people." A different leader of this country, whose first prime minister was Edmund Barton, expanded its role in Vietnam with the slogan, "All the way with LBJ." That shortest-serving leader of this country, Harold Holt, mysteriously disappeared while (*) swimming. Prime Minister Kevin Rudd apologized for the "Stolen Generations" to this country's Aborigines in 2008. For 10 points, name this country whose Prime Ministers have included Robert Menzies [*"Ming-gus"*], John Howard and Julia Gillard.**

ANSWER: **Australia** [or the Commonwealth of **Australia**] <Cole Phinney>/<ed. JO>

14. **An efficient method of performing this operation on characters with a near-geometric distribution is named after Golomb and Rice. Another method of performing this operation takes advantage of the natural repetition of characters and references a “dictionary” and is called LZW. A “greedy” variety of this operation involves tabulating character counts and creating prefixes based on a data tree and is named after Huffman. Examples of the (*) “lossy” version of files created using this operation contain artifacts and include JPEGs and MPEGs. For 10 points, name this operation which encodes information to use less space.**

ANSWER: Data Compression <David Dennis>/<ed. HB>

15. **In this novel, one character has the habit of punctuating her speech with “whatsitsname.” Joseph D’Costa’s ghost in this novel causes the midwife Mary Pereira [“puh-rye-ruh”] to confess to a crime she committed on the Methwold Estate. In this novel, the protagonist is switched at birth with (*) Shiva-of-the-Knees, and his moment of birth lines up with the partition of India, which gives him special telepathic powers. For 10 points, name this novel about Saleem Sinai, written by Salman Rushdie.**

ANSWER: Midnight’s Children <Tyler Benedict>/<ed. ME>

16. **Some performers that use this item employ a “swazzle,” and are assisted by a bottler. Vietnamese works that use this item in a performance often feature Chú Tễu appearing in a waist-high pool of water. Afghan works in a genre that uses this item are known as Buz-baz, and involve a lute tied to a goat. Performers in a genre that uses this item are always dressed in black to symbolize that they are “invisible” to the audience. Karagöz and Hacivat are traditional characters in Ottoman works that use the (*) “shadow” one of this item. For 10 points, name this item, which is used in a form of theater that involves characters manipulated by sticks or by performers hands, as in the Japanese *Bunraku*.**

ANSWER: Puppets [or Puppet Theater; or Puppetry; or Punch-and-Judy before “Chu Teu” is read] <David Dennis>

17. **A man with this surname promoted the bill known as the “Crime of ‘73” and was nicknamed the “Ohio Icicle.” A different person with this surname refused the presidency by saying, “I will not accept if nominated and will not serve if elected.” That man with this surname was a Union general, whose (*) scorched earth tactics included rails that were heated and tied around trees, his “neckties.” The first American antitrust act was named for a senator with this surname. For 10 points, give this surname of the brothers John and William, who marched the Union Army through Georgia.**

ANSWER: Sherman [or John Sherman; or William Sherman; or William Tecumseh Sherman] <David Dennis>/<ed. JO>

18. One theme in this work starts with an up and down *short-short-long, short-short-long*, arpeggio of a second-inversion C major chord bottoming out on a low F sharp. This work was commissioned by Natalya Sats after the composer had recently finished a set of piano pieces for children, and it was completed along with the composer's *Three Children's Songs*. In this work, a character circles the antagonist's muzzle while another character catches its (*) tail in a noose. Hunters are represented by tympani and the Grandfather by a bassoon in, for 10 points, this work by Sergei Prokofiev meant to teach children about musical instruments.

ANSWER: Peter and the Wolf <David Dennis>

19. The speaker of this poem asks, "Who is the third who walks beside you?" and in the first section Marie is told to "hold on tight" while sledding. An Evelyn Waugh [*"wah"*] novel was titled after this poem's line "I will show you fear in a handful of dust." The words (*) "Shantih shantih shantih" appear in the last section of this poem, "What the Thunder Said." For 10 points, name this Modernist poem that begins "April is the cruellest month," written by T.S. Eliot.

ANSWER: "The Waste Land" <Carrie Derner>/<ed. ME>

20. This element combines with carbon to form carborundum, which is used as an abrasive. NMR spectroscopy using its 29 isotope can be used to analyze zeolites. This element is used to produce mass amounts of magnesium metal via the Pidgeon Process. It can undergo catenation, similar to alkanes, as it is located below (*) carbon on the periodic table. This non-germanium element is commonly used as a semiconductor, and it combines with oxygen to form quartz. For 10 points, name this metalloid used to make computer chips with symbol Si.

ANSWER: silicon [or Si before it is read] <Max Mader>/<ed. AR>

Bonuses

1. In this play, the valium addict Harper discovers her husband Joe Pitt is a homosexual. For 10 points each.

[10] Name this play, divided into the sections “Millennium Approaches” and “Perestroika,” which sees Louis leave Prior Walter.

ANSWER: Angels in America (by Tony Kushner)

[10] This character in *Angels in America* is a gay lawyer, who is visited by the ghost of Ethel Rosenberg before his death.

ANSWER: Roy Cohn [or Roy Cohn]

[10] Roy Cohn and Prior Walter both suffer from this disease. Roy Cohn acquires the drug AZT to fight symptoms of this disease.

ANSWER: AIDS [or Acquired Immune Deficiency Syndrome; or HIV; or Human Immunodeficiency Virus; or any combination of AIDS and HIV] <Carrie Derner>/<ed.ME>

2. It only took 10 years to get there, but in August 2014 this mission finally arrived at its destination. For 10 points each:

[10] Name either craft used on a namesake mission to visit and land on an extraterrestrial body, which came to an end on September 30th, 2016.

ANSWER: Rosetta [or Philae]

[10] The Rosetta probe was launched by the European Space Agency, whose headquarters are in this country. Jean-Loup Chrétien, born in this country, was the first Western European in space.

ANSWER: France

[10] The mission ended when the Rosetta probe landed on an object of this type named 67P. Another object of this type is nicknamed “Hale Bopp”.

ANSWER: Comet [or Hale Bopp Comet] <Matthew Dew>/<ed. HB>

3. Rudolf Anderson was one of the few people to die during this event. For 10 points each:

[10] Name this 1962 Cold War clash, where the U.S. reacted to the Soviet Union placing nuclear weapons on the namesake Caribbean island country.

ANSWER: Cuban Missile Crisis

[10] After the Cuban Missile Crisis, a hotline was created to facilitate easier communication between John F. Kennedy and this Soviet premier. He denounced Stalin in his “Secret Speech.”

ANSWER: Nikita Khrushchev [“*Kroosh-chev*”] [or Nikita Sergeyevich Khrushchev]

[10] During Khrushchev’s Virgin Lands Campaign, the city of Akmolinsk in this modern-day country was renamed. Akmolinsk was further renamed to Astana, the capital of this country.

ANSWER: Kazakhstan [or Kazakstan; or Republic of Kazakhstan; or Qazaqstan Respublikasi] <Jacob O’Rourke>

4. Mayor Ed Murray's office was accused of asking a UC-Berkeley report to rush publication in 2016. For 10 points each:

[10] That study counters a University of Washington report alleging that this city's ordinance raising the now-highest minimum wage for a major US city to \$15 for all workers by 2021, has led to modest reductions in employment

ANSWER: **Seattle**, Washington

[10] A third study from April 2016 found that this European country's policy where union-negotiated wages increase 40% when workers turn 18 cuts their employment by one third.

ANSWER: **Denmark**

[10] This state's Supreme Court ruled in 2016 that cities do not have the authority to raise the minimum wage. This state's Governor Matt Bevin also signed an executive order removing increases in the wage for government workers and contractors.

ANSWER: **Kentucky** <David Dennis>

5. The ancient Greeks and Romans seemed to enjoy tales about male heroes dressing as women. Answer the following about cross-dressing in classical myth for 10 points each:

[10] This hero's mother Thetis sent him to Skyros disguised as a woman so he could avoid the Trojan War. He was discovered by Odysseus and eventually died from an arrow to the heel.

ANSWER: **Achilles** [or **Achilleus**]

[10] After killing Iphitus [*"IFF-ih-tiss"*] by throwing him over a wall, this hero was sentenced to dress as a maid and serve Queen Omphale [*"Om-fall-ee"*] for a year, while she got to wear his garb and carry his club.

ANSWER: **Hercules** [or **Heracles**]

[10] In a Euripedes [*"Eur-ip-ih-deez"*] play, King Pentheus disguises himself as a Maenad, a female follower of this god, in order to spy on this god's cult. It doesn't turn out well—he ends up being torn to pieces.

ANSWER: **Dionysus** [or **Bacchus**] <Tyler Benedict>/<ed. JO>

6. This play is divided into the sections "The Exorcism," "Walpurgisnacht" [*"Wall-pur-giss-nakt"*] and "Fun and Games." For 10 points each.

[10] Name this play about George and Martha's dysfunctional marriage, which is exacerbated by the arrival of Nick and Honey.

ANSWER: **Who's Afraid of Virginia Woolf?**

[10] *Who's Afraid of Virginia Woolf* is by this American playwright, who died in 2016. He wrote about two lizards named Leslie and Sarah in *Seascape*.

ANSWER: Edward **Albee** [or Edward Franklin **Albee** III]

[10] In Albee's play *Zoo Story*, Jerry goads Peter into a fight near a bench in Central Park, which is located in this Northeastern city.

ANSWER: **New York** City <Tyler Benedict>/<ed. ME>

7. The Polisario Front is a Sahrawi [*“Sah-rah-wee”*] liberation movement that aims to end Morocco’s influence in this area. For 10 points each:

[10] Name this disputed territory in North Africa. “The Berm” is a line of sand walls and landmines over 1500 miles long that has split this territory since 1980.

ANSWER: **Western Sahara**

[10] Egypt and Sudan, in their dispute over the Hala’ib Triangle, would like to cede this uninhabited and unclaimed spot of desert to the other side.

ANSWER: **Bir Tawil**

[10] Namibia and South Africa have been locked in a dispute over the exact position of the border they share along this river. One says the border is in the middle of the river, while the other claims it is on the northern shore.

ANSWER: **Orange** River <David Dennis>

8. This civilization's pottery included Vasiliki ware and Kamares ware. For 10 points each:

[10] Name this civilization, which Sir Arthur Evans distinguished from the later Mycenaean Civilization. Its primary script is the undeciphered Linear A.

ANSWER: **Minoan** Civilization

[10] This island south of mainland Greece contains the ruins of Knossos, which was built by the Minoan civilization. This island is home to Mount Ida.

ANSWER: **Crete** [or **Kriti**; or **Krete**; or **Creta**; or **Kirid**; or **Candia**]

[10] This German archaeologist found a gold funerary mask that he dubbed the “Mask of Agamemnon” while excavating Mycenae. Arthur Evans often worked with this archaeologist.

ANSWER: Heinrich **Schliemann** [or Johann Ludwig Heinrich Julius **Schliemann**] <Cole Phinney>/<ed. JO>

9. The blue color of the sky is due to the Rayleigh form of this process. For 10 points each:

[10] Name this general process that involves the redirection of radiation due to interactions with molecules and particles.

ANSWER: **scattering** [or Rayleigh **scattering**]

[10] This term describes scattering like Rayleigh scattering where the wavelength of the scattered light is the same as the incident light.

ANSWER: **elastic** scattering

[10] In this type of inelastic scattering, photons experience a loss of energy and a lowered frequency. It produces either Stokes or anti-Stokes lines.

ANSWER: **Raman** scattering <David Dennis>/<ed. HB>

10. This psychological experiment administered by Walter Mischel tested children's ability to delay gratification. For 10 points each:

[10] Name this experiment, where children who delayed eating a certain food would be rewarded with double the amount of food.

ANSWER: the **Marshmallow** Test [or the **Marshmallow** experiment]

[10] Walter Mischel was a professor at this university in Palo Alto when he performed the Marshmallow Test. This university was also the site of a namesake "prison" experiment.

ANSWER: **Stanford** University [or Leland **Stanford** Junior University; or **Stanford** Prison Experiment]

[10] Philip Zimbardo, who led the Stanford Prison Experiment, later compared it to the abuse of prisoners in Abu Ghraib in this book.

ANSWER: *The **Lucifer Effect**: Understanding How Good People Turn Evil* <Sophia Johnson>/<ed. HB>

11. An FBI investigation of the failure of Madison Guaranty Savings and Loans uncovered this scandal. For 10 points each:

[10] Name this scandal, which arose after David Hale accused the former governor of Arkansas of forcing him to give a loan to a failed Jim and Susan McDougal-run real estate venture.

ANSWER: **Whitewater** scandal [or **Whitewater** controversy]

[10] Whitewater was a scandal during this former Arkansas governor's first term as president. This man was impeached in 1998 for his inappropriate relationship with Monica Lewinsky.

ANSWER: Bill **Clinton** [or William Jefferson **Clinton**; or William Jefferson **Blythe** III]

[10] This man investigated the death of Vince Foster while heading the Whitewater Commission. In June 2016, he resigned as Chancellor of Baylor after mishandling sexual assault accusations.

ANSWER: Ken **Starr** [or Kenneth Winston **Starr**] <Cole Phinney>/<ed. JO>

12. In this play, there is a dispute over the phrase "light the kettle." For 10 points each.

[10] Name this play, in which the hitmen Ben and Gus receive cryptic messages via the title device.

ANSWER: *The **Dumb Waiter***

[10] This absurdist author of *The Dumb Waiter* also wrote *Betrayal* and *The Birthday Party*.

ANSWER: Harold **Pinter**

[10] In *The Birthday Party*, this character is asked "Why did the chicken cross the road?" and receives a toy drum before being abducted by Goldberg and McCann.

ANSWER: **Stanley** Webber [or Stanley **Webber**] <Carrie Derner>/<ed. ME>

13. Answer the following questions about non-canonical Christian texts. For 10 points each:

[10] According to this text written in the Coptic language, whoever interprets its sayings correctly "will not taste death." It is named after a doubting apostle who first spread Christianity to India.

ANSWER: Gospel of **Thomas** [or "the Gospel According to **Thomas**"]

[10] Another non-canonical text, now lost, is named for the "acts" of this man. This son of King David also names a "Song" that is also called the Canticle of Canticles.

ANSWER: **Solomon** [accept **Jedidiah**]

[10] A theologian from this city considered the Shepherd of Hermas canonical, as did Irenaeus. That theologian from this city, Origen, believed in the transmigration of souls and allegedly castrated himself.

ANSWER: **Alexandria** [or **Adamantius**] <Sophia Johnson>/<ed. AR>

14. Clozapine is used in the treatment of schizophrenia because it inhibits the mesolimbic pathway of this neurotransmitter. For 10 points each:

[10] Name this naturally occurring catecholamine [*"cat-uh-ko-la-meen"*] formed by the decarboxylation of L-DOPA [*"Ell-Dopa"*]. This neurotransmitter is critical to the "reward system" of the brain.

ANSWER: **dopamine**

[10] A low level of striatal [*"stry-at-ul"*] dopamine is associated with this neurological disorder. Also called "shaking palsy," this progressive disorder primarily affects the elderly.

ANSWER: **Parkinson's Disease**

[10] Parkinson's disease victims show a death of dopaminergic [*"do-pa-min-er-gic"*] neurons of the pars compacta, which is in this part of the midbrain. This part of the basal ganglia's name is Latin for "black substance."

ANSWER: **substantia nigra** <David Dennis>/<ed. AR>

15. This musician's debut concert at the age of seven featured a duet of Kalkbrenner's *Variations on a March from "Moses"* with Emilie Reichold, a student of her father's. For 10 points each:

[10] Name this pianist, teacher, and composer, whose first composition, her *Piano Concerto in A Minor* was conducted by Felix Mendelssohn. As a concert pianist, she was among the first to perform from memory.

ANSWER: **Clara Schumann** [or Clara **Wieck**; prompt on **Schumann**, do NOT accept or prompt on "Robert Schumann"]

[10] Though Clara Schumann spent the next 35 years performing and promoting her husband's music, her final concert in 1891 ended with this composer's *Variations on a Theme by Haydn*.

ANSWER: Johannes **Brahms**

[10] Clara is depicted in the "Chiarina" [*"Chee-ah-ree-nah"*] movement of this work by her husband Robert. It immediately follows a movement in this work based on the theme A-S-C-H, which spells the name of the town where Robert met his *first* fiancée.

ANSWER: **Carnaval** <David Dennis>

16. Lewis proposed a cubical model of these objects, and Lucretius stated that their *clinamen* or "swerve" explains free will. For 10 points each:

[10] Name these indivisible particles, which were theorized by Democritus. Dalton's model of these objects likens them to billiard balls.

ANSWER: **atoms**

[10] This model of the atom by J.J. Thomson represented it as a positively charged mass with electrons scattered throughout it.

ANSWER: **plum pudding** model

[10] In Bohr's model of the atom, he proposed that electrons are held in circular orbits by this force. This force would keep electrons in orbit around the positively charged nucleus.

ANSWER: **electromagnetic** force <David Dennis / ed. Ashwin Ramaswami>

17. Jesus's head serves as the vanishing point for the central scene in this work. For 10 points each:

[10] Name this work depicting a scene from the Gospel of Matthew in which Peter finds the title object which is used to pay a temple tax.

ANSWER: *The **Tribute Money***

[10] *The Tribute Money* is by this Italian renaissance painter of the *Holy Trinity* and a work in which Adam and Eve are expelled from heaven by an angel with a sword, *Expulsion from the Garden of Eden*.

ANSWER: **Masaccio** ["Mah-sa-chee-oh"] [or Tommaso di ser Giovanni di Mone **Cassai**]

[10] All three of the aforementioned paintings are this kind of work, in which paint is applied to wet plaster.

ANSWER: **Fresco** <William Groger>/<ed. CW>

18. Tatyana wonders if this man is just a mishmash of literary heroes when she reads his books. For 10 points each.

[10] Name this title dandy, who duels Lensky and delivers a namesake "sermon" in response to a love letter from Tatyana.

ANSWER: **Eugene** Onegin [or Eugene **Onegin**]

[10] *Eugene Onegin* is a verse novel by Alexander Pushkin, who wrote during this European country's "Golden Age of Literature." Nikolai Gogol wrote in this country's language.

ANSWER: **Russia** [or **Rossija**; or **Rossiya**]

[10] This Indian author used *Eugene Onegin*'s distinctive rhyme scheme to write *The Golden Gate*. He wrote about Mrs. Rupa Mehra's efforts to find a husband for Lata in *A Suitable Boy*.

ANSWER: Vikram **Seth** <Tyler Benedict>/<ed. ME>/<ed. JO>

19. Answer some questions about Amazon's foray into food. For 10 points each.

[10] In June 2017, Amazon announced that it had acquired this upscale grocery chain for over 13 billion dollars. This grocery chain drew controversy for using prison labor in 2015.

ANSWER: **Whole Foods** Market, Inc.

[10] Amazon also announced a partnership with this Italian restaurant chain, whose trademark offerings include a "Never-Ending" pasta bowl, as well as unlimited breadsticks.

ANSWER: **Olive Garden**

[10] Amazon plans to deliver Olive Garden foods to members of this premium paid subscription service, which also offers free two-day shipping and Instant Video.

ANSWER: Amazon **Prime** <Tyler Benedict>/<ed. SP>/<ed. JO>

20. Mao Zedong credited this book's teachings with helping him in his defeat of Chiang Kai-Shek. For 10 points each:

[10] Name this military treatise, which contains sections describing five fundamentals of military engagements and nine common situations.

ANSWER: *The **Art of War*** [or ***Sun Zi Bing Fa***]

[10] This man is typically credited with the authorship of *The Art of War*. He served as a minister for King Helü of the Wu state.

ANSWER: **Sun Tzu** [or **Sun Zi**; or **Sun Wu**; or **Changqing**]

[10] *The Art of War* was written during the Spring and Autumn period, which occurred during this dynasty's second half. This dynasty was longest-lasting Chinese dynasty.

ANSWER: **Zhou** Dynasty [or **Chou** Dynasty] <Sophia Johnson>/<ed. JO>